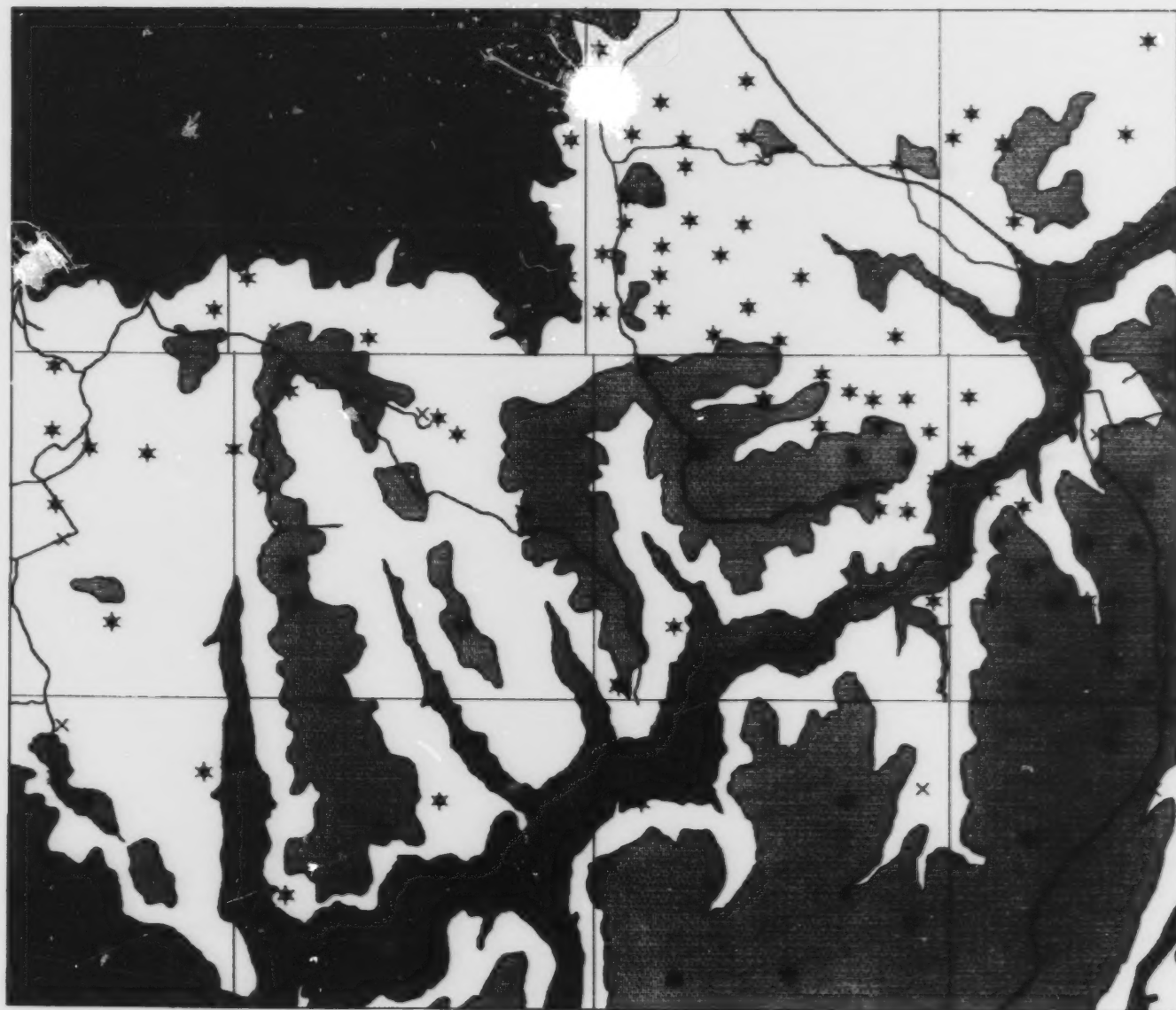


# ALBERTA GEOLOGICAL SURVEY - COAL GEOLOGY

## COAL COMPILATION PROJECT - PRAIRIE CREEK

NTS 83L/7

R.J.H. Richardson, C.W. Langenberg, D.K. Chao and D. Fietz<sup>+</sup>; Appendix 2 by M. Dawson<sup>+</sup>



Coal Compilation Project  
Open File Report 1991-10  
Coal Geology Section  
Alberta Geological Survey

<sup>+</sup> Institute of Sedimentary  
and Petroleum Geology  
<sup>\*</sup> ELAD Enterprises Inc.

**ALBERTA  
RESEARCH  
COUNCIL**

TABLE of CONTENTS

|                                               |    |
|-----------------------------------------------|----|
| Foreword.....                                 | i  |
| Acknowledgments.....                          | ii |
| Introduction.....                             | 1  |
| Objective.....                                | 1  |
| Methodology and Discussion of GIS.....        | 2  |
| Location and Access.....                      | 4  |
| Geological Setting.....                       | 5  |
| Stratigraphy of Coal-Bearing Units.....       | 5  |
| Wapiti Group.....                             | 5  |
| Upper Brazeau Formation.....                  | 5  |
| Upper Coalspur Formation.....                 | 7  |
| Structure.....                                | 7  |
| Environmental Setting.....                    | 7  |
| Integrated Resource Plans (IRP's).....        | 7  |
| Resource Management.....                      | 8  |
| Coal Dispositions.....                        | 8  |
| Established Coal Resources and Reserves.....  | 10 |
| Exploration History.....                      | 10 |
| Coal.....                                     | 10 |
| Coal Exploration Drillholes.....              | 10 |
| Coal Exploration Trenches/Hand Trenches.....  | 12 |
| Oil and Gas Wells.....                        | 12 |
| Coal Occurrences.....                         | 14 |
| Coal Exploration Drillholes.....              | 14 |
| Coal Exploration Trenches/Hand Trenches.....  | 15 |
| Coal Outcrops.....                            | 15 |
| Coal Quality Summary.....                     | 16 |
| Coal Rank.....                                | 16 |
| Coal Exploration Drillholes.....              | 16 |
| Coal Exploration Trench/Hand Trench Data..... | 16 |
| Coal Outcrops.....                            | 17 |
| Coal Resource Development Potential.....      | 17 |
| Coal Potential.....                           | 17 |
| Resources ..                                  | 17 |

**ALBERTA GEOLOGICAL SURVEY - COAL GEOLOGY**

**COAL COMPILATION PROJECT - PRAIRIE CREEK**

**NTS 83L/7**

**R. J. H. Richardson, C. W. Langenberg, D. K. Chao and**

**D. Fietz<sup>\*</sup>;**

**Appendix 2 by M. Dawson<sup>\*\*</sup>**

**ELAD Enterprises Inc.<sup>\*</sup>**

**Institute of Sedimentary and Petroleum Geology<sup>\*\*</sup>**

Coal Compilation Project  
Open File Report: 1991-10  
Coal Geology Section  
Alberta Geological Survey

**ALBERTA  
RESEARCH  
COUNCIL**

|                         |    |
|-------------------------|----|
| Coal Quality.....       | 18 |
| Mining Potential.....   | 18 |
| Overburden .....        | 18 |
| Geotechnical.....       | 18 |
| Data Availability ..... | 18 |
| Future Work .....       | 18 |
| References.....         | 20 |



### LIST of FIGURES

|                                                                                                                                         | <i>Page</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Figure 1 Coal Compilation Project - Prairie Creek NTS 83L/7 : Location                                                                  | 3           |
| Figure 2. Stratigraphic Nomenclature Adopted for the Coal Compilation Project<br>(after Macdonald et al, 1989; and Dawson, 1989 & 1990) | 6           |
| Figure 3. Locations/Outlines of IRP's in the Surrounding Vicinity (1989)                                                                | 9           |

### LIST of APPENDICES

|             |                                                                                    |
|-------------|------------------------------------------------------------------------------------|
| Appendix 1. | 83L/7 - Coal Drillholes                                                            |
| Appendix 2. | 83L/7 - GSC/ISPG (Dawson) Coal Trench Data from the Wapiti Project                 |
| Appendix 3. | 83L/7 - Oil and Gas Wells                                                          |
| Appendix 4. | 83L/7 - Coal Intersections of the Coal Drillholes                                  |
| Appendix 5. | 83L/7 - Alberta Research Council - Coal Exploration Programs in the Wapiti<br>Area |

### LIST of MAPS

ALBERTA RESEARCH COUNCIL MAP RCM7 (in pocket)

## Foreword

The prime objective of the three year pilot Coal Compilation Project (CCP), initiated in the 1989/90 fiscal year, is to provide coal resource maps to stimulate and support industry exploration programs, and assist government in matters of resource management. An essential feature of the program is the use of cost effective Geoscience Information System (GSIS) technology that allows the database and various thematic maps to be analyzed, updated, and displayed with complete flexibility at any scale.

Each map set is intended to be a stand alone, unique product contributing to an overall synthesis of information. Maps generated can be at a regional or reconnaissance level. Collection of new data has been limited. Data compiled and evaluated has been based on the following principal sources; Alberta Research Council/Alberta Geological Survey (ARC/AGS); Energy Resources Conservation Board (ERCB); Geological Survey of Canada (GSC/ISPG); and information from the coal industry sector. Industry has cooperated and supported the CCP by providing unpublished corporate reports to the AGS. The availability of these reports has been an essential component toward the success of this project.

The CCP may encompass up to eighteen 1: 50 000 scale mapsheets, to be completed over the three year period. Nine mapsheets have been completed to date, four during the 1989/90 fiscal year and an additional five during the past 1990/91 fiscal year.

Custom maps and database searches can be obtained by contacting the Coal Geology Section, Alberta Geological Survey, Alberta Research Council. Raw coal exploration data<sup>1</sup> that are in the 'public' domain can, for a nominal fee, be viewed in microfiche form at the Records Center of the Energy Resources Conservation Board in Calgary, Alberta. Arrangements can also be made to acquire copies of all/selected data.

---

<sup>1</sup>Specifically, the geophysical logs (and other associated data) of coal exploration drillholes and, as available, analytical data relating to coal quality.

### Acknowledgments

The project was funded by the Alberta Department of Energy and the Alberta Research Council. The Alberta Geological Survey Coal Technical Advisory Sub-Committee provided valuable guidance for the project. Mike Dawson of the Geological Survey of Canada (GSC/ISPG) provided significant Upper Cretaceous/Tertiary coal subcrop information as well as trench logs and analytical data from said trenches. Esso Resources Canada Limited and Union Oil Company of Canada are thanked for making unpublished reports/data available to the Alberta Geological Survey. D. Goulet assisted with map digitization and data entry.

## Introduction

### Objective

The stated objective of the pilot Coal Compilation Project (CCP), initiated in the 1989/90 fiscal year, was to provide coal resource maps on a 1: 50 000 scale, which would

- o stimulate and support industry exploration programs, and
- o assist government in matters of resource management (eg, Integrated Resource Plans) in areas that may have good coal development potential, but have a lack of data or understanding.

Each map set was intended to be a stand alone, unique product contributing to an overall synthesis of information. Maps generated would be at a regional or reconnaissance level. Collection of new data and/or actual time in the field has been limited. Data compilation and evaluation has been based on the following principal sources

- o Alberta Research Council/Alberta Geological Survey (ARC/AGS)
- o Energy Resources Conservation Board (ERCB)
- o Geological Survey of Canada (GSC/ISPG)
- o cooperation from the coal industry sector.

The CCP may encompass up to eighteen 1: 50 000 scale mapsheets, to be completed over a three year pilot period. Nine mapsheets have been completed to date, four during the 1989/90 fiscal year and an additional five during the past 1990/91 fiscal year. At the end of the three year period, the CCP should be evaluated to determine if the project should be expanded and/or continued. As each map represents a complete product, the Coal Technical Advisory Subcommittee would be able to monitor the progress of the research and react to changing priorities without being committed to spending funds more than one year in advance.

Four contiguous NTS mapsheets<sup>2</sup>, located within the Hinton - Grande Cache corridor, were completed during the first fiscal year (1989/90) of the CCP. During the past fiscal year (1990/91), an additional five, but still contiguous, NTS mapsheets were completed in the Grande Cache - Musreau Lake area (see Figure 1). From southeast to northwest (to north), the mapsheets are identified as 83E/16 (Donald Flats), 83L/2 (Bolton Creek), 83L/3 (Copton Creek), 83L/7 (Prairie Creek) and 83L/10 (Cutbank River).

For each mapsheet, a product has been generated that includes

- o a coal resource map (scale 1: 50 000)
- o 'snapshot' maps (scale 1: 250 000)
- o supplementary text.

#### **Methodology and Discussion of GIS**

Geographic Information Systems (GIS) which encompass spacial data storage, display and analysis by computer have been employed in the municipal, environmental and forestry sectors for many years. The term GIS has been applied to mainly surface or geographic studies and has not as a rule been extended to the 3rd dimension (depth) or temporal aspects (time). A Geoscience Information System (GSIS) goes beyond what is generally thought of as traditional GIS and is focused strongly on subsurface information. An essential feature of the CCP is the use of cost effective GSIS technology that allows the database and various thematic maps to be analyzed, updated, and displayed with complete flexibility at any scale. In addition custom maps can be produced from the various data and graphic elements that have been entered into the information system.

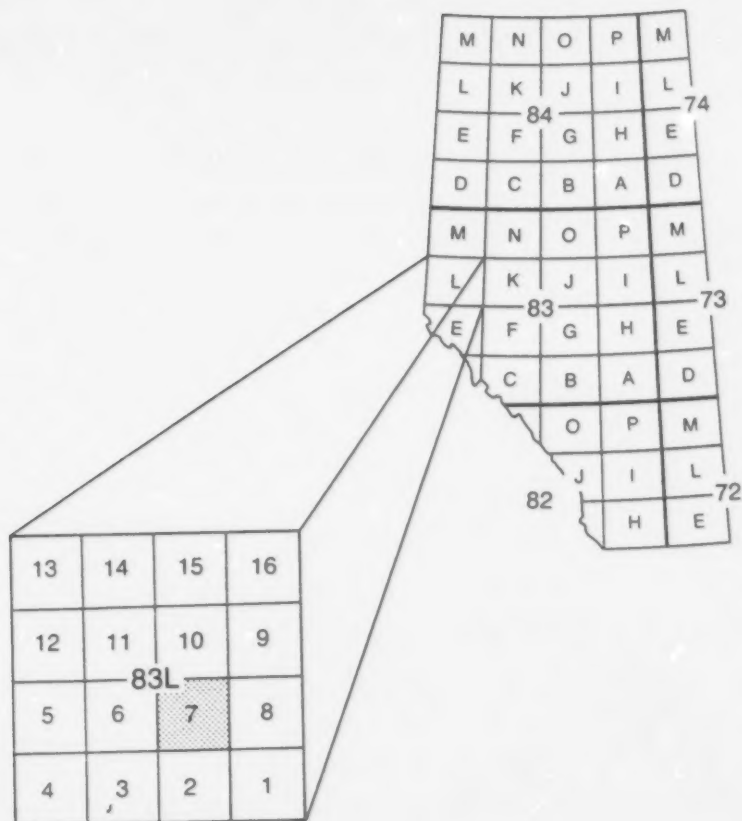
Much of the present methodology, software and hardware used in this study is described in detail in the Alberta Research Council, Open File Report 1989-03A (Richardson et al, 1989). In general both digital and hard copy data or graphic elements are entered into a GIS software product (pcARC/INFO) where they can be analyzed, displayed or plotted to hardcopy.

During the initial year of the CCP, substantial time was spent in

---

<sup>2</sup>From southeast to northwest, the mapsheets are identified as 83F/5 (Entrance), 83E/9 (Moberly Creek), 83E/15 (Pierre Greys Lakes) and 83E/14 (Grande Cache).

Figure 1. Coal Compilation Project - Prairie Creek NTS 83L/3 : Location



- o developing the hardcopy, product template, and
- o replicating the above template into the electronic medium of GIS.

During the past year, much of the original design work was utilized where appropriate. There were numerous, additional design problems, not encountered in the initial year's work, which also had to be resolved. These 'new' design difficulties consumed significantly more time than was initially anticipated. As a net result, expectations of the number of CCP mapsheets generated during the fiscal year fell somewhat short of expectations.

The mapsheets completed to date have each provided their own unique design difficulties, a situation which appears to be more the norm rather than the exception. If, as expected, this pattern continues into the third year of the CCP, the number of mapsheets to be generated should be adjusted downward to reflect, and acknowledge, time spent in resolving these unique design problems.

#### Location and Access

The study area of mapsheet NTS 83L/7 (Prairie Creek) is located in west-central Alberta between Latitudes  $54^{\circ} 15'$  and  $54^{\circ} 30'$  North, and Longitudes  $118^{\circ} 30'$  and  $119^{\circ} 00'$  West (between Townships 61 and 63 inclusive, and Ranges 4 to 7 inclusive, West of the 6<sup>th</sup> Meridian).

From the center of the mapsheet, the closest communities are

- o Grande Cache (83E/14), located some 90 kilometers to the southwest or
- o Grande Prairie (83M/2), located some 120 kilometers to the north.

Paved and improved access, to and within the area, is provided by Highway 40 and Secondary Highway 734. Numerous all-weather, gravelled wellsite and logging roads also exist. Additional secondary seasonal access is provided by a network of roads, trails and seismic lines.

The area is serviced by the Canadian National Railway and the Alberta Resources Railway; the rail line, located in the the extreme southeast corner of the mapsheet, parallels the Smoky River drainage. The rail line has the capacity to accommodate coal unit trains. The coal terminal at Ridley Island, located at Prince Rupert, B.C., is located approximately 1300 rail-kilometers



from Grande Cache; the Neptune Terminals at Vancouver, B.C. are located approximately 1150 rail-kilometers from Grande Cache.

### Geological Setting

Within the mapsheet 83L/7, near-surface coal measures are deposited within thick successions of sandstones, siltstones, shales and conglomerates. Known coal-bearing sequences are contained within the Upper Cretaceous/Tertiary Wapiti Group.

The coal-bearing Luscar Group, while not present in surface exposures, occurs at depth. Within the mapsheet, the Luscar Group is intersected, in the subsurface, in the 2400 to 3500 meter<sub>deep</sub> range.

Stratigraphic nomenclature for the above strata is shown in Figure 2.

### Stratigraphy of Coal-Bearing Units

#### Wapiti Group

The Wapiti Group consists of primarily nonmarine sandstones, conglomerates, shales and coals; the Group lies conformably above the marine Wapiabi Formation.

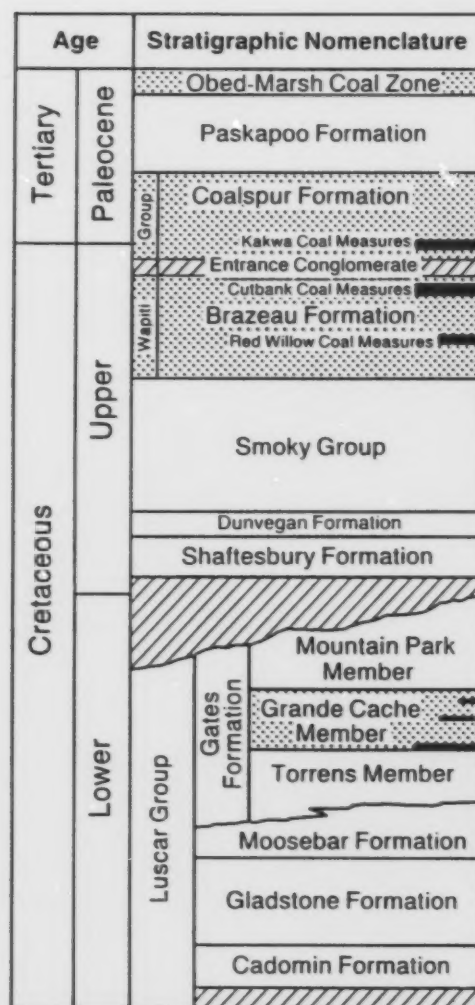
The strata of the Wapiti Group have been divided into four formations (McMechan and Dawson 1990)

- o Lower Brazeau
- o Upper Brazeau; contains the sequence informally defined as the Cutbank coal measure
- o Lower Coalspur
- o Upper Coalspur; contains the sequence informally defined as the Kakwa coal measure.

#### Upper Brazeau Formation

Coal occurrences within the Cutbank coal measure of the Upper Brazeau Formation have, within the mapsheet, been documented from a limited number of oil and gas wells. Within the CCP mapsheet 83L/7, the Cutbank coal measure have an average thickness of 190+ meters. The (up

**Figure 2. Stratigraphic Nomenclature Adopted for the Coal Compilation Project**  
 (after Macdonald et al 1989; and Dawson et al 1989 & 1990)



**Legend**

-  Coal-bearing unit
-  Coal Seams/Zones
-  Hiatus or missing interval

to) seven coal seams vary in both thickness and continuity, and have an average aggregate thickness of 5.5 meters. Seam correlations are preliminary.

### Upper Coalspur Formation

Coal occurrences within the Kakwa coal measure of the Upper Coalspur Formation have, within the mapsheet, been documented in outcrops, trenches, coal drillholes and a number of oil and gas wells. Within the CCP mapsheet 83L/7, the Kakwa coal measure have an average thickness of 130 meters. The (up to) ten coal seams vary in both thickness and continuity, and have an average aggregate thickness of 7.5 meters. Locally, individual coal zones of the Kakwa coal measure thicken to 4.8 meters. Seam correlations are preliminary.

### Structure

The axis of the Alberta Syncline, trending northwest/southeast, is located near the northeast corner of the mapsheet.

Most of the mapsheet area is located on the southwest limb of the Alberta Syncline; the strata have shallow dips, usually between 0 and 15 degrees toward the northeast. Strata, on the northeast limb of the Alberta Syncline, have shallow dips in a southwesterly direction.

### Environmental Setting

#### Integrated Resource Plans (IRP's)

Within the mapsheet, there are no IRP's, either completed or in-progress.

Except for a small area in the southeastern part of the CCP mapsheet, 83L/7 is located within the 'proposed\_for\_the\_future' Kakwa-Wapiti IRP. The southeastern part of the mapsheet is located, in part, south of the Smoky River. The area south of the Smoky River is part of the Smoky-Simonette IRP. It's status is also 'proposed\_for\_the\_future'.

See also Figure 3 for locations/outlines of IRP's in the surrounding vicinity. On Figure 3, a bracketed letter trails the name of the IRP; this letter identifies the status of the IRP as

o (C); completed

- o (P); in-progress or
- o (F); future.

### Resource Management

#### Coal Dispositions

The status of the rights\_to\_coal within an area can generally be categorized into one of the following

- o Crown coal lease
- o Crown coal lease under application
- o Areas with registered right of first refusal
- o Freehold coal rights
- o Coal withdrawn from disposition.

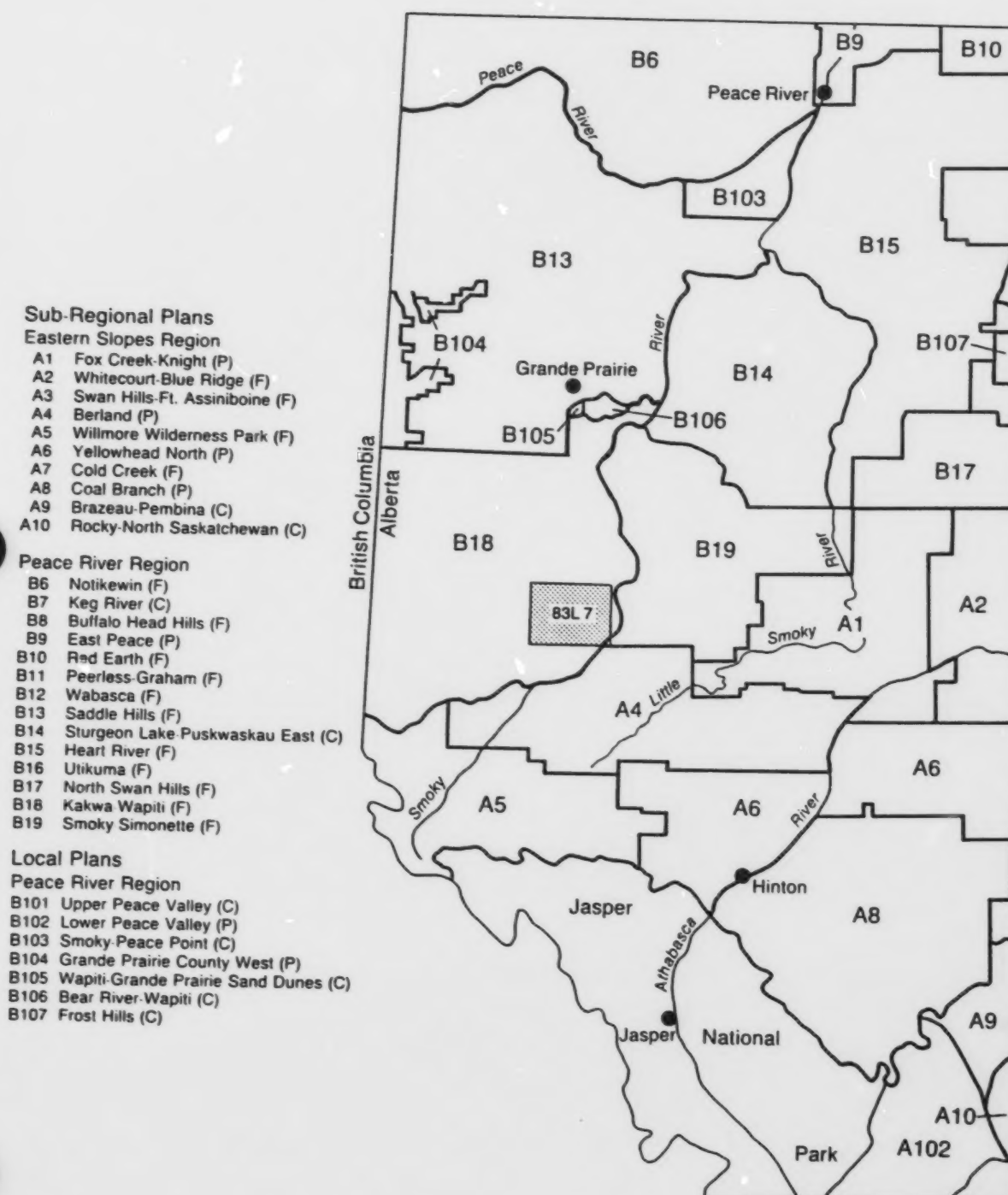
According to a Alberta Energy Coal Disposition Map which includes 83L/7 (1989-05-09 version), the following 4 companies/individuals are/were involved in one or more of the above activities

- o Amoco Canada Resources Ltd.
- o Consolidation Coal Company of Canada Limited
- o Esso Resources Canada Limited
- o Seaton-Jordan & Associates Ltd.

It should be noted that, for the mapsheet, the corporate coal lease activities consisted of only the 'Crown coal lease' and 'Crown coal lease under application' categories.

Large tracts of coal lease applications, originated by Amoco Canada Resources Ltd. and Seaton-Jordan & Associates Ltd., have been recently withdrawn; ie, these two companies now have no coal lease activity within the mapsheet area. These recent application withdrawals have been

**Figure 3. Locations/Outlines of IRP's in the Surrounding Vicinity (1989)**



reflected on the Coal Dispositions 'snapshot' map located on the enclosed ALBERTA RESEARCH COUNCIL MAP RCM7. Only Consolidation Coal Company of Canada Limited (Crown coal lease and coal lease application) and Esso Resources Canada Limited (Crown coal lease and coal lease application) have coal interests within the mapsheet area.

#### Established Coal Resources and Reserves

Coal resources and/or reserves have been calculated by the ERCB (1989) for the whole of Alberta. The CCP mapsheet 83L/7 contains, in part, the

o Musreau Lake Coal Field; part of the ERCB-designated 'Plains Region'; the Coal Field is divided into three separate deposits (North, Amundson and Kakwa Tower).

The Coal Field outline has been shown on the the GIS plot

#### Exploration History

##### Coal

##### Coal Exploration Drillholes

Some 146 coal exploration holes<sup>3</sup> have been drilled by 5 companies between 1967 and 1987. Based on data stored in the AGS Coal Database, 123 holes (84%) contained coal intersections; it follows that 23 holes (16%) did not intersect coal. Hole depths ranged from less than 5 to 103 meters in depth.

Coal exploration drilling activities were carried out by a number of corporate entities. A summary follows

---

<sup>3</sup>Information, concerning coal exploration drillholes, is based on the AGS Coal Database, April, 1989 version of the ERCB Coal Hole File. It is planned, in the next fiscal year, to upgrade the AGS Coal Database with the April, 1991 version of the ERCB Coal Hole File.



| <u>Company</u>                               | <u>Number of Holes Drilled</u> |
|----------------------------------------------|--------------------------------|
| Alberta Research Council                     | 18                             |
| C. Warren Hunt Explorations Ltd.             | 4                              |
| Consolidation Coal Company of Canada Limited | 54                             |
| Esso Resources Canada Limited                | 61                             |
| Hudbay Coal Company                          | 9                              |

Based on the April, 1989 version of the ERCB Coal Hole File, details of the coal exploration drillhole are given in Appendix 1 and includes information on:

- o SITID; the assigned Site Identification Number within the AGS Coal Database
- o CAT\_ID; the assigned Catalogue Identification Number within the ERCB Coal Hole File (April, 1989 version)
- o ORIG; the Original Identification Number of the Datapoint (ie, drillhole number)
- o EDITED; within the ERCB Coal Hole File, the equivalent to ORIG has been limited to 6 spaces; this, in some cases, has not been sufficient to record the ORIGINAL corporate assigned drillhole number; within the AGS Coal Database, ORIG has been allocated 11 spaces; a 'X' in the EDITED column identifies those drillholes whose ORIG's were truncated; drillholes listed in the ORIG column of the listing have been edited and now reflect the 'true' Original Identification Numbers
- o NCinDH; a 'NC' in the column indicates that there were no coal intersections, for the drillhole, contained within the AGS Coal Database
- o M; Meridian
- o T; Township
- o R; Range
- o S; Section



- o RSEC; Reference Section
- o RCNR; Reference Corner
- o METN; Meters north or south from the reference corner
- o METE; meters east or west from the reference corner
- o ELEV; Ground or surface elevation of the datapoint (drillhole)
- o TD; Total depth of drillhole reported in meters
- o CORPNUM; the assigned Corporation Number within the AGS Coal Database
- o CPDT; completion date of the datapoint (drillhole); date coded as yymmdd
- o COMPANY; identifies the company that generated the datapoint (drillhole).

#### Coal Exploration Trenches/Hand Trenches

Between 1988 and 1990, Dawson of the GSC/ISPG conducted a series of field mapping programs in the Wapiti area of northwestern Alberta. The programs were executed, in part, on the mapsheet 83L/7. Two hand-dug trenches were excavated to expose coal seams, of the Kakwa coal measure, within the mapsheet area.

Trench locations have been shown on the GIS plot.

Appendix 2 contains copies of the trench logs, plus additional information concerning Dawson's field mapping programs in the Wapiti area.

#### Oil and Gas Wells

The CCP mapsheet 83L/7 contains, in part, two major oil fields (the Kakwa and Red Rock Fields) and two gas fields (the Chicken and the Musreau Fields). Outlines, of the Fields, have been indicated on the GIS plot.

In establishing the above noted fields, 157 oil and gas wells have been drilled within the mapsheet area. Of the wells drilled,

- o 25 are suspended

- o 15 are suspended oil wells
- o 10 are suspended gas wells
- o 16 have been abandoned
- o 1 is an abandoned gas well
- o 1 is an abandoned oil well
- o 18 are capped gaswells
- o 1 well is standing
- o 12 are flowing gas wells
- o 53 are flowing oilwells
- o 5 are pumping oilwells.

See Appendix 3 for additional data. The Appendix is based on queries from the ERCB oil and gas database (April, 1989 version).

Oil and gas well locations have been identified on the GIS plot. Drilling activity has been further summarized in the following table

| <u>Field Name</u>                         | <u>Number of Oil/Gas Wells Drilled</u> |
|-------------------------------------------|----------------------------------------|
| Chicken (Gas) Field                       | 12                                     |
| Kakwa (Oil) Field                         | 104                                    |
| Musreau (Gas) Field                       | 8                                      |
| Red Rock (Oil) Field                      | 9                                      |
| Outside of the above noted Oil/Gas Fields | 24                                     |

## Coal Occurrences

### Coal Exploration Drillholes

On both Appendix 1 and the map, coal exploration drillholes have been identified as either

- o coal thicker than 0.5m intersected in the drillhole

or

- o no coal thicker than 0.5m intersected in the drillhole.

Coal is defined as greater than 50% carbonaceous material by weight and more than 70% carbonaceous material by volume as estimated from geophysical logs. The exclusion of coal seams thinner than 0.5m is consistent with Hughes et al. (1988), who exclude seams thinner than 0.5m in resource determination.

Coal intersections, per coal exploration drillhole, have been included in Appendix 4. The listing includes

- o SITID; the AGS Coal Database identification number
- o CAT\_ID; the ERCB catalogue identification number
- o ORIG; the original company-assigned drillhole number
- o M T R S ; Dominion Land Survey (DLS) information; ie, Meridian, Township, Range and Section
- o TOP DEPTH; depth to top of coal in meters
- o BOT DEPTH; depth to bottom of coal in meters
- o THICK; thickness of the coal seam in meters
- o SEAM; the ERCB\_Designated Coal Seam Name/Number (if assigned/known); a '0' indicates that the seam has not been correlated

- o MIN; Mineral Matter content of the coal (often a best-estimate from geophysical log interpretation); a '0' indicates that the mineral matter of the coal was not available and/or not derived
- o REGOLITH; thickness, in meters, of the regolith
- o PIKNUM; the geological pick identification number as stored in the AGS Coal Database
- o REMARKS.

Appendix 5 provides additional information concerning past Alberta Research Council coal exploration drill programs in the Wapiti area. The drill programs, conducted primarily during 1966 and 1967, were executed, in part, within the CCP mapsheet 83L/7.

#### Coal Exploration Trenches/Hand Trenches

Two hand-dug trenches were excavated, by Dawson of the GSC/ISPG, to expose the Kakwa coal measure contained within the mapsheet 83L/7. Trench locations have been shown on the GIS plot. Trench logs are contained in Appendix 2.

Individual coal seams exposed within the trenches vary in thickness from >1 to 1.9 meters.

#### Coal Outcrops

Numerous coal outcrops and/or coal seam traces have been documented within the mapsheet 83L/7 by

- o ARC/AGS
- o Esso Canada Resources Limited
- o GSC/ISPG
- o Union Oil Company of Canada Limited.

Coal outcrop locations and/or coal seam traces have been identified on the GIS plot. Coal seam outcrops are limited to the Kakwa coal measure and vary in thickness to 4.7 meters.

## Coal Quality Summary

### Coal Rank

Within the mapsheet 83L/7, coals of both the Cutbank and Kakwa coal measures have a rank of high volatile bituminous C to sub-bituminous B.

### Coal Exploration Drillholes

Eighteen coal exploration drillholes, within the mapsheet 83L/7, contain coal quality information. Coal quality data generated, from the 101 samples, includes

- o 80 Proximate Analysis (as-received basis (arb)) from 18 drillholes
- o 91 Proximate Analysis (air-dried basis (adb)) from 15 drillholes
- o 74 Sulphur analysis (adb) from 15 drillholes
- o 80 Heating Value determinations (arb) from 18 drillholes
- o 83 Heating Value determinations (adb) from 15 drillholes
- o 19 samples of Ash Analysis ( $\text{Na}_2\text{O}$  &  $\text{K}_2\text{O}$  only) from 8 drillholes
- o 6 samples of Ash Fusibility (completeness varies) from 4 drillholes
- o 12 samples of Equilibrium Moisture from 3 drillholes
- o 17 samples of Hardgrove Grindability Index (HGI) determinations from 9 drillholes
- o 17 Specific Gravity samples from 9 drillholes.

### Coal Exploration Trench/Hand Trench Data

From 1988 to 1990, Dawson of the GSC/ISPG conducted a field mapping program to evaluate the Kakwa coal measure contained, in part, within the mapsheet 83L/7. Two hand-dug, coal trenches were sampled. Samples were analyzed for proximate analyses, sulphur, heating value and vitrinite reflectance.

The analytical data are presented on the trench logs contained within Appendix 2. Trench site locations have been presented on RCM7.

### Coal Outcrops

A number of outcrops, within the mapsheet 83L/7, have been sampled by both Crown and private corporations

- o ARC/AGS, 1969; from 1 coal outcrop, sample results include Proximate Analysis and Heating Value determinations
- o Esso Canada Resources Limited, 1982 to 1985; 9 coal samples were analyzed for palynology; one of the coal samples was also subjected to petrographic analysis; an additional 10 non-coal outcrops, were also analyzed for palynology
- o Union Oil Company of Canada Limited, 1980; from 4 coal outcrops, sample results include Proximate Analysis, Sulphur, Heating Value and Equilibrium Moisture and palynology determinations; an additional 3 coal samples<sup>4</sup> were analyzed for palynology only.

### Coal Resource Development Potential

A semiquantitative and subjective evaluation of the potential of coal development in the map area is based on limited data. It is based on mainly geological criteria and does not take into account governmental restrictions on coal development or evaluate actual economic constraints to development now or in the future. The three criteria that have been used are Coal Potential, Mining Potential, and Data Availability (discussed in more detail below). Areas in Green on the companion map (thematic inset 'Coal Development Potential') reflect higher level of knowledge and potential for development of coal than the blue (medium) or red areas (low). Areas rated in blue indicate more information is needed to determine the coal development potential. Areas colored red indicate some potential for development. The remaining uncolored areas have no data available often because the coal, if present, is at depth under non coal-bearing rocks.

### Coal Potential

#### Resources

The amount of data is too small for a quantitative evaluation of coal resources.

---

<sup>4</sup>Actual palynology results are not available. Only locational data is available for these latter 3 samples.

### Coal Quality

Very little coal quality data is available but where test results are present the potential of the coal for development is strengthened. In general where a sample has been collected and analyzed the coal has an inherent development potential.

### Mining Potential

#### Overburden

An evaluation of overburden for surface mining and depth for underground mining has been made. (The 'Mining Potential' criteria did not take into account governmental restrictions on coal development or evaluate actual economic constraints to development now or in the future.)

#### Geotechnical

Geotechnical considerations included an evaluation of structural setting. Consideration was given to infrastructural concerns related to site, environment and potential mining problems.

### Data Availability

Little coal data is available for the entire map area but where present the potential of the coal for development is strengthened. In general, where an outcrop, drillhole, trench or sample is present the coal has an increased development potential. Some value was given to areas containing sediments that typically include coal.

### Future Work

In general, from a coal resource/exploration point of view, the map area has been only superficially examined. Additional coal exploration and coal quality data needs to be collected throughout the map area.

The coal-bearing Luscar Group, while not present in surface exposures, occurs at depth. Within the mapsheet, the Luscar Group is intersected, in the subsurface, in the 2400 to 3500 meter<sub>deep</sub> range. If depth of burial is not a deterrent, the presence of (thick ?) coals of low to medium volatile bituminous rank could indicate the area has potential for coalbed methane. The entire area of the accompanying map, RCM7, contains Luscar sediments at depth. Additional



work is required to establish and evaluate coalbed methane resource potential of the Luscar Group in the area.

The mapsheet contains coals of the Cutbank and the Kakwa coal measures of the Wapiti Group. These coals should also be considered for their coalbed methane potential. The coals have a rank of high volatile bituminous C to sub-bituminous B. Coalbed methane potential, while (probably) not as high as the Luscar Group coals, should not be excluded.

Based on existing data, potential surface-mineable coal resources may be contained within the Kakwa coal measure. Additional mapping and mechanical exploration programs are required to establish and quantify both coal quantity and quality.

For most of the remaining map area, little data is available and the coal development potential is somewhat uncertain.

## References

Alberta Forestry, Lands and Wildlife - Resource Planning Branch. 1991-01. Planning in Progress newsletter (Volume 8 Number 1).

Alberta Energy. 1990. Coal Dispositions, June 27, 1989 version (Coal Leases and Applications etal) Map - 83L SE. Scale 1:125000.

Allan, J.A. and Carr, J.L. 1946. Geology and Coal Occurrences of the Wapiti-Cutbank Area, Alberta. Research Council of Alberta, Report 48.

Barnes, R. 1977. Hydrogeology of the Mount Robson-Wapiti area, Alberta. Alberta Research Council. Report 76-5.

\* Blakeney, R.S. 1981-01. West of Sixth Project - Thermal Coal Acreage-Geological Evaluation Based on 1980 Field Mapping Program. Union Oil Company of Canada Limited. 4 Volumes. Report contains detailed regional geological maps. Scale 1:25000. Outline identified as 1 on GIS plot.

Campbell, J.D. Coal Mines and Coal Leases, Alberta Rocky Mountains and Foothills. Research Council of Alberta. Report 66-5.

Christophel, D.C. of the Department of Botany, University of Alberta, Edmonton, Alberta, Canada. 1976. Fossil Floras of the Smoky Tower Locality, Alberta, Canada. Palaeontographica, July, 1976. Pages 1-43.

Dawson, F.M., Jerzykiewicz, T. and Sweet, A.R. 1989. A Preliminary Analysis of the Stratigraphy and Sedimentology of the Coal Bearing Wapiti Group, Northwestern Alberta. Alberta Research Council Information Series No. 103 - Advances in Western Canadian Coal Geoscience - Forum Proceedings. Pages 1-11.

ERCB. December 1989. Reserves of Coal, Province of Alberta. ERCB Report ST90-31.

ERCB. 1988. Coal Mine Atlas Operating and Abandoned Coal Mines in Alberta. ERCB Report 88-45.

ERCB. 1974. Review of the Alberta Coal Industry. ERCB Report 74-E.

- \* Esso Resources Canada Limited. 1990-09-11. Smoky River Reconnaissance Area: Raw Data and Mapping Data Compilation - NTS 83L. Compilation includes numerous maps at scales of 1: 250 000 and 1: 50 000. Outline identified as 3 on GIS plot.

- \* Hallas, D. 1986. Technical Report - Kakwa Summary 1985; NTS File 83L/3. Esso Resources Canada Limited, Coal Division.

- \* Hallas, D. 1986-05. Technical Report - 1985 Nose Mountain Drill Prospect; NTS File 83L/6. Esso Resources Canada Limited, Coal Division.

Hughes, J.D., Klatzel-Mudry, L. and Nikols, D.J. 1989. A Standardized Coal Resource/Reserve Reporting System for Canada. Geological Survey of Canada. Paper 88-21.

Irish, E.J.W. 1965. Geology of the Rocky Mountain Foothills, Alberta. Geological Survey of Canada. Memoir 334.

- \* Jamer, B. 1982-04. Esso Minerals Canada Limited - Coal Division, Kakwa Prospect. Report contained within 2 volumes.

Kalkreuth, W. and McMechan, M.E. 1988. Burial History and Thermal Maturity, Rocky Mountain Front Ranges, Foothills, and Foreland, East-Central British Columbia and Adjacent Alberta, Canada. American Association of Petroleum Geologists Bulletin, V.72, No. 11 (November, 1988). Pages 1395-1410.

Kalkreuth, W. and McMechan, M.E. 1984. Regional Patterns of Thermal Maturation as Determined from Coal-Rank Studies, Rocky Mountain Foothills and Front Ranges North of Grande Cache, Alberta - Implications for Petroleum Exploration. Bulletin of Canadian Petroleum Geology, Vol. 32 (Sept. 1984). Pages 249-271.

Kramers, J.W. and Mellon J.B. 1972-02. Geology and Mineral Resources, Northwest-Central Alberta (Hinton to Grande Prairie) . Research Council of Alberta - Geology Division.

Kramers, J.W. and Mellon J.B. 1972. Cretaceous-Paleocene Coal-Bearing Strata, Northwest-Central Alberta Plains. Research Council of Alberta Information Series No. 60 - Proceedings First Geological Conference On Western Canadian Coal. Pages 109-124.

Langenberg, C.W., Macdonald, R.E. and Richardson, R.J.H. 1986-12. Geological Studies of Coal in Alberta : A Status Report. Alberta Research Council-Alberta Geological Survey. Open File Report 1986-14.

\* McCandlish, K. 1981-01. West of 6th Project - Sterne Creek, Grande Mountain and Grizzly Creek Metallurgical Coal Prospects - Preliminary Geological Evaluation - 1980 Field Programme. Mining Department - Union Oil Company of Canada Limited.

McMechan, M.E. and Dawson, F.M. 1990. Geological Compilation - Wapiti Area (83L). Geological Survey of Canada. Open File Report 2313. Scale 1: 125 000. Outline identified as 4 on GIS plot.

McMechan, M.E. 1989. Copton Creek mapsheet (83L/3). Geological Survey of Canada. Open File Report 2185. Scale 1: 50 000.

Mellon, G.B. 1972-09. Mineral Resources of Northwest-Central Alberta. Research Council of Alberta - Geology Division. Open File Report 1972-04.

Mellon, G.B., Kramers J.W., Kathol, C. P. 1972. Geology and Terrain Evaluation: Alberta Resources Railway and Alternative Routes. Research Council of Alberta, Geology Division.

Patching, T. H. (edited by). 1985. Coal in Canada. Canadian Institute of Mining and Metallurgy. Special Volume 31.

Richardson, R.J.H., Langenberg, C.W., Chao, D.K. and Fietz, D. 1990. Coal Compilation Project - Entrance; NTS 83F/5. Alberta Research Council-Alberta Geological Survey. Open File Report 1990-02.

Richardson, R.J.H., Langenberg, C.W., Chao, D.K. and Fietz, D. 1990. Coal Compilation Project - Moberly Creek; NTS 83E/9. Alberta Research Council-Alberta Geological Survey. Open File Report 1990-03.

Richardson, R.J.H., Langenberg, C.W., Chao, D.K. and Fietz, D. 1990. Coal Compilation Project - Pierre Greys Lakes; NTS 83E/15. Alberta Research Council-Alberta Geological Survey. Open File Report 1990-04.

Richardson, R.J.H., Langenberg, C.W., Chao, D.K. and Fietz, D. 1990. Coal Compilation Project - Grande Cache; NTS 83E/14. Alberta Research Council-Alberta Geological Survey. Open File Report 1990-05.

Richardson, R.J.H., Mandryk, G.B. and Fietz, D.W. 1989. Coal Geology Database. Alberta Research Council-Alberta Geological Survey. Open File Report 1989-02A to -02D inclusive.

Richardson, R.J.H., Chao, D.K. and Krzanowski, R.M. 1989. Coal Geoscience Information System Pilot Study. Alberta Research Council-Alberta Geological Survey. Open File Report 1989-03A and 1989-03B.

Richardson, R.J.H., Strobl, R.S., Macdonald, D.E., Nurkowski, J.R., McCabe, P.J. and Bosman, A. 1988. An evaluation of the coal resources of the Ardley coal zone to a depth of 400m, in the Alberta plains area. Alberta Research Council-Alberta Geological Survey. Open File Report 1988-02. 2 Volumes.

\* Smoky River Coal Limited. Personal Communication with Mr. Brian Klappstein, Senior Geologist, Technical Services.

\* Woodley, M.A. 1982-03. West of the Sixth Project - 1981 Thermal Coal Drill Program - Geological Evaluation. Union Oil Company of Canada Limited. 4 Volumes. Outline identified as 2 on GIS plot.

---

\* Confidential corporate reports on loan to the Alberta Geological Survey.

**Appendix 1. 83L/7 - Coal Drillholes**



|    | A                                                                                                                                                                                                            | B      | C      | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V                                       |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------------------------|
| 1  | FILE NAME: #317.DLS (on the mainframe)                                                                                                                                                                       |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 2  |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 3  |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 4  |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 5  | NOTE: 1. ORIG that has been edited ...is, ERCB Coal Hole File did not present 'true' original drillhole number; ORIG now represents 'true' original drillhole number.                                        |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 6  | 2. No coal in drillhole as per criteria of Hughes, Murry & Nichols in GBC Paper #4-21, 'A Standardized Coal Resource/Reserve System for Canada'; geology picks have been modified from the AGS Coal Database |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 7  | April, 1989 version of the ERCB Coal Hole File.                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 8  | 3. A 'Y' indicates that coal quality data exist; ref: AGS Coal Database, April, 1989 version of the ERCB Coal Hole File.                                                                                     |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 9  | DWF 8007                                                                                                                                                                                                     |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 10 |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 11 |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 12 |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 13 |                                                                                                                                                                                                              |        |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                         |
| 14 | 1048088                                                                                                                                                                                                      | 342624 | 75-39  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 15 | 1048088                                                                                                                                                                                                      | 513374 | 83-53  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 43 ESSO RESOURCES CANADA LIMITED        |
| 16 |                                                                                                                                                                                                              | 535856 | 87-102 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 43 ESSO RESOURCES CANADA LIMITED        |
| 17 | 1048091                                                                                                                                                                                                      | 513263 | 83-30  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 43 ESSO RESOURCES CANADA LIMITED        |
| 18 | 1048092                                                                                                                                                                                                      | 513275 | 83-38  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 43 ESSO RESOURCES CANADA LIMITED        |
| 19 | 1048112                                                                                                                                                                                                      | 342796 | 8      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 20 | 1048113                                                                                                                                                                                                      | 342764 | 75-6C  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 21 | 1048114                                                                                                                                                                                                      | 342780 | 8      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 22 | 1048115                                                                                                                                                                                                      | 342788 | 75-8C  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 23 | 1048116                                                                                                                                                                                                      | 342806 | 8      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 24 | 1048117                                                                                                                                                                                                      | 342814 | 75-9C  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 25 | 1048118                                                                                                                                                                                                      | 343226 | 75-38  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 26 | 1048119                                                                                                                                                                                                      | 343234 | 75-40  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 27 | 1048120                                                                                                                                                                                                      | 342673 | 8      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 28 | 1048121                                                                                                                                                                                                      | 342723 | 3      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 G. WARREN HUNT EXPLORATIONS LTD.      |
| 29 | 1048122                                                                                                                                                                                                      | 342772 | 7      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 30 | 1048123                                                                                                                                                                                                      | 342822 | 10     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 31 | 1048124                                                                                                                                                                                                      | 342830 | 75-10C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 32 | 1048125                                                                                                                                                                                                      | 343002 | 21     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 33 | 1048126                                                                                                                                                                                                      | 343044 | 24C    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 34 | 1048127                                                                                                                                                                                                      | 343127 | 31     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 35 | 1048128                                                                                                                                                                                                      | 342881 | 10-D   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 36 | 1048129                                                                                                                                                                                                      | 342898 | 10-E   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 37 | 1048130                                                                                                                                                                                                      | 342707 | 10-E   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 G. WARREN HUNT EXPLORATIONS LTD.      |
| 38 | 1048131                                                                                                                                                                                                      | 342731 | 3      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 G. WARREN HUNT EXPLORATIONS LTD.      |
| 39 | 1048132                                                                                                                                                                                                      | 342749 | 5      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 40 | 1048133                                                                                                                                                                                                      | 342862 | 17C    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 41 | 1048134                                                                                                                                                                                                      | 343242 | 75-41  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 42 | 1048135                                                                                                                                                                                                      | 342846 | 11     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 43 | 1048136                                                                                                                                                                                                      | 342855 | 75-11C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 44 | 1048137                                                                                                                                                                                                      | 342889 | 13     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 45 | 1048138                                                                                                                                                                                                      | 342897 | 75-13C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 46 | 1048139                                                                                                                                                                                                      | 342921 | 15C    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 47 | 1048140                                                                                                                                                                                                      | 342938 | 75-15C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 48 | 1048141                                                                                                                                                                                                      | 343051 | 25     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 49 | 1048142                                                                                                                                                                                                      | 343069 | 75-25C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 50 | 1048143                                                                                                                                                                                                      | 343218 | 75-37  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 51 | 1048144                                                                                                                                                                                                      | 343205 | 14     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 52 | 1048145                                                                                                                                                                                                      | 342813 | 75-14C |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 53 | 1048146                                                                                                                                                                                                      | 342847 | 16     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 54 | 1048147                                                                                                                                                                                                      | 342954 | 16C    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 55 | 1048148                                                                                                                                                                                                      | 343036 | 23     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 56 | 1048149                                                                                                                                                                                                      | 343085 | 27C    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 57 | 1048150                                                                                                                                                                                                      | 343093 | 27     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |
| 58 | 1048151                                                                                                                                                                                                      | 343366 | 75-54  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 34 CONSOLIDATION COAL COMPANY OF CANADA |



| A    | B       | C      | D      | E  | F | G | H  | I | J  | K  | L  | M        | N        | O       | P      | Q      | R      | S  | T                                    | U | V |
|------|---------|--------|--------|----|---|---|----|---|----|----|----|----------|----------|---------|--------|--------|--------|----|--------------------------------------|---|---|
| 5.9  | 1048132 | 362713 | 2      | NC |   | 6 | 62 | 4 | 20 | 20 | NE | -536.10  | -1394.80 | 904.80  | 65.00  | 741200 | 810400 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.0  | 1048133 | 362988 | 18     | NC |   | 6 | 62 | 4 | 20 | 20 | NE | -121.80  | -8.40    | 933.30  | 91.40  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.1  | 1048134 | 363077 | 26     |    |   | 6 | 62 | 4 | 20 | 20 | NE | -181.20  | -1003.70 | 940.90  | 91.40  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.2  | 1048135 | 363119 | 30C    |    |   | 6 | 62 | 4 | 20 | 20 | NE | -125.00  | -13.40   | 933.90  | 42.70  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.3  | 1048136 | 362970 | 18     |    |   | 6 | 62 | 4 | 21 | 21 | NE | -1053.40 | -1228.00 | 972.80  | 85.00  | 740100 | 810400 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.4  | 1048137 | 363010 | 22     |    |   | 6 | 62 | 4 | 21 | 21 | NE | -1004.00 | -1090.90 | 988.00  | 80.80  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.5  | 1048138 | 363028 | 22C    |    |   | 6 | 62 | 4 | 21 | 21 | NE | -1051.80 | -1224.40 | 972.80  | 39.80  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.6  | 1048139 | 363101 | 30C    |    |   | 6 | 62 | 4 | 22 | 22 | NE | -438.30  | -1318.60 | 1031.40 | 121.80 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.7  | 1048140 | 363150 | 75-33  |    |   | 6 | 62 | 4 | 22 | 22 | NE | -510.80  | -1456.80 | 1017.70 | 108.20 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.8  | 1048141 | 363166 | 75-34  |    |   | 6 | 62 | 4 | 22 | 22 | NE | -510.80  | -1456.80 | 1017.70 | 126.50 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 6.9  | 1048142 | 363176 | 75-35  |    |   | 6 | 62 | 4 | 22 | 22 | NE | -1354.50 | -1051.10 | 973.30  | 97.30  | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.0  | 1048143 | 363184 | 75-35C |    |   | 6 | 62 | 4 | 22 | 22 | NE | -1354.50 | -1051.10 | 973.30  | 85.30  | 750100 | 810400 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.1  | 1048144 | 363192 | 75-36  |    |   | 6 | 62 | 4 | 22 | 22 | NE | -1258.20 | -1607.50 | 997.00  | 121.80 | 750100 | 810400 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.2  | 1048145 | 363200 | 75-36C |    |   | 6 | 62 | 4 | 27 | 27 | NE | -1258.20 | -1607.50 | 997.00  | 103.60 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.3  | 1048146 | 363135 | 75-37  |    |   | 6 | 62 | 4 | 27 | 27 | NE | -1258.20 | -1607.50 | 997.00  | 103.60 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.4  | 1048147 | 363143 | 75-35C |    |   | 6 | 62 | 4 | 27 | 27 | NE | -1258.20 | -1607.50 | 997.00  | 103.60 | 750100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.5  | 1048148 | 362996 | 20     | NC |   | 6 | 62 | 4 | 29 | 29 | NE | -1261.10 | -1693.20 | 984.80  | 90.80  | 740100 | 830600 | 34 | CONSOLIDATION COAL COMPANY OF CANADA |   |   |
| 7.6  | 1048149 | 362996 | 83-72  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -35.00   | -438.00  | 1078.40 | 148.40 | 831100 | 880200 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 7.7  | 1048150 | 363507 | 83-72C |    |   | 6 | 62 | 5 | 6  | 6  | NE | -35.00   | -438.00  | 1078.40 | 148.40 | 831100 | 880200 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 7.8  | 1048151 | 363481 | 83-71  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 7.9  | 1048152 | 363470 | 83-71  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.0  | 1048153 | 363470 | 83-12  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.1  | 1048154 | 363470 | 83-14  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.2  | 1048155 | 363470 | 83-10  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.3  | 1048156 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.4  | 1048157 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.5  | 1048158 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.6  | 1048159 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.7  | 1048160 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.8  | 1048161 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 8.9  | 1048162 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.0  | 1048163 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.1  | 1048164 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.2  | 1048165 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.3  | 1048166 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.4  | 1048167 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.5  | 1048168 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.6  | 1048169 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.7  | 1048170 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.8  | 1048171 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 9.9  | 1048172 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.0 | 1048173 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.1 | 1048174 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.2 | 1048175 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.3 | 1048176 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.4 | 1048177 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.5 | 1048178 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.6 | 1048179 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.7 | 1048180 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.8 | 1048181 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 10.9 | 1048182 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.0 | 1048183 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.1 | 1048184 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.2 | 1048185 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.3 | 1048186 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.4 | 1048187 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.5 | 1048188 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |
| 11.6 | 1048189 | 363470 | 83-31  |    |   | 6 | 62 | 5 | 6  | 6  | NE | -1623.00 | -1020.00 | 1113.10 | 151.50 | 831100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED        |   |   |

|     | A       | B      | C | D      | E | F | G | H  | I | J  | K  | L  | M        | N        | O       | P      | Q      | R      | S  | T                             | U | V |
|-----|---------|--------|---|--------|---|---|---|----|---|----|----|----|----------|----------|---------|--------|--------|--------|----|-------------------------------|---|---|
| 117 | 1048264 | 393301 |   | 2      |   |   | 6 | 63 | 5 | 18 | 18 | NE | -1372.00 | -515.00  | 1084.00 | 125.00 | 781.00 | 841200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 118 | 1048265 | 393400 |   | 13     |   |   | 6 | 63 | 5 | 18 | 18 | NE | -555.00  | -527.00  | 1006.00 | 89.50  | 781.00 | 841200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 119 | 1048266 | 393416 |   | 13A    |   |   | 6 | 63 | 5 | 18 | 18 | NE | -584.00  | -527.00  | 1006.00 | 35.90  | 781.00 | 841200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 120 | 1048267 | 393758 |   | 70     |   |   | 6 | 63 | 5 | 18 | 18 | NE | -1005.80 | -1005.80 | 1033.30 | 18.30  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 121 | 1048268 | 513804 |   | 83-23  |   |   | 6 | 63 | 5 | 21 | 21 | NE | -1032.00 | -1105.00 | 1018.00 | 80.00  | 830300 | 870600 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 122 | 1048269 | 363762 |   | 7818   |   |   | 6 | 63 | 5 | 22 | 22 | NE | -731.00  | -814.00  | 1038.30 | 84.70  | 780200 | 830700 | 53 | HUBBARD COAL COMPANY          |   |   |
| 123 | 1048270 | 363776 |   | 7818   |   |   | 6 | 63 | 5 | 22 | 22 | NE | -1087.00 | -848.00  | 1005.80 | 76.20  | 780200 | 830700 | 53 | HUBBARD COAL COMPANY          |   |   |
| 124 | 1048271 | 393293 |   | 1      |   |   | 6 | 63 | 5 | 31 | 31 | NE | -1530.00 | -389.00  | 981.00  | 150.00 | 781100 | 841000 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 125 | 1048272 | 363747 |   | 72     |   |   | 6 | 63 | 5 | 33 | 33 | NE | -1005.80 | -201.20  | 981.50  | 50.30  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 126 | 1048273 | 363758 |   | 70     |   |   | 6 | 63 | 5 | 36 | 36 | NE | -1408.20 | -603.50  | 932.70  | 45.70  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 127 | 1048274 | 513882 |   | 83-57  |   |   | 6 | 63 | 6 | 4  | 4  | NE | -1427.00 | -1137.00 | 1138.70 | 92.00  | 831100 | 880200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 128 | 1048275 | 513980 |   | 83-57C |   |   | 6 | 63 | 6 | 4  | 4  | NE | -1430.00 | -1137.00 | 1138.70 | 92.00  | 831100 | 880200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 129 | 1048276 | 393335 |   | 5      |   |   | 6 | 63 | 6 | 13 | 13 | NE | -807.00  | -1003.00 | 1002.00 | 87.00  | 781100 | 841000 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 130 | 1048277 | 393327 |   | 6      |   |   | 6 | 63 | 6 | 15 | 15 | NE | -81.00   | -104.00  | 923.00  | 88.00  | 781100 | 841000 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 131 | 1048278 | 363812 |   | 67     |   |   | 6 | 63 | 6 | 18 | 18 | NE | -304.80  | -608.60  | 1016.50 | 50.30  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 132 | 1048279 | 393343 |   | 7      |   |   | 6 | 63 | 6 | 18 | 18 | NE | -81.00   | -1003.00 | 988.00  | 92.00  | 781100 | 850800 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 133 | 1048280 | 363804 |   | 66     |   |   | 6 | 63 | 6 | 21 | 21 | NE | -814.40  | -782.00  | 1018.60 | 39.80  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 134 | 1048281 | 506366 |   | 4      |   |   | 6 | 63 | 6 | 23 | 23 | NE | -1133.90 | -386.80  | 893.30  | 105.40 | 781100 | 870800 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 135 | 1048282 | 363766 |   | 60     |   |   | 6 | 63 | 6 | 24 | 24 | NE | -608.60  | -1219.20 | 1008.20 | 38.60  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 136 | 1048283 | 393318 |   | 3      |   |   | 6 | 63 | 6 | 24 | 24 | NE | -1423.00 | -824.00  | 948.00  | 120.00 | 781100 | 850800 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 137 | 1048284 | 393350 |   | 8      |   |   | 6 | 63 | 6 | 30 | 30 | NE | -1183.00 | -8.00    | 1052.00 | 150.90 | 781100 | 841000 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 138 | 1048286 | 513564 |   | 82-6   |   |   | 6 | 63 | 7 | 1  | 1  | NE | -1286.00 | -878.00  | 1220.70 | 124.00 | 821100 | 880700 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 139 | 1048287 | 513572 |   | 82-6CH |   |   | 6 | 63 | 7 | 1  | 1  | NE | -1287.00 | -877.00  | 1220.70 | 124.00 | 821100 | 880700 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 140 | 1048288 | 513515 |   | 82-1   |   |   | 6 | 63 | 7 | 4  | 4  | NE | -1015.00 | -631.00  | 1240.80 | 153.00 | 821100 | 880100 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 141 | 1048289 | 363853 |   | 1-77   |   |   | 6 | 63 | 7 | 16 | 16 | NE | -201.20  | -1005.80 | 1066.80 | 230.30 | 770700 | 830700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 142 | 1048290 | 393392 |   | 12     |   |   | 6 | 63 | 7 | 23 | 23 | NE | -578.00  | -421.00  | 968.00  | 125.50 | 781100 | 841000 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 143 | 1048291 | 363829 |   | 66     |   |   | 6 | 63 | 7 | 25 | 25 | NE | 0.00     | 0.00     | 960.10  | 50.30  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 144 | 1048292 | 393376 |   | 10     |   |   | 6 | 63 | 7 | 25 | 25 | NE | -341.00  | -1082.00 | 1004.00 | 134.00 | 781100 | 850800 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 145 | 1048293 | 363838 |   | 65     |   |   | 6 | 63 | 7 | 26 | 26 | NE | 0.00     | 0.00     | 969.30  | 27.40  | 670800 | 810700 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 146 | 1048295 | 393384 |   | 11     |   |   | 6 | 63 | 7 | 35 | 35 | NE | -1055.00 | -1268.00 | 930.00  | 150.00 | 781100 | 850800 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 147 | 1050687 | 535856 |   | 87-102 |   |   | 6 | 61 | 7 | 26 | 26 | NE | -600.00  | -1000.00 | 1204.00 | 78.80  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 148 | 1050688 | 535732 |   | 87-85  |   |   | 6 | 62 | 6 | 30 | 30 | NE | -784.00  | -1481.00 | 1183.00 | 68.80  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 149 | 1050690 | 535740 |   | 8785CH |   |   | 6 | 62 | 6 | 30 | 30 | NE | -784.00  | -1486.00 | 1183.00 | 45.20  | 871200 | 891200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 150 | 1050692 | 535823 |   | 8785CH |   |   | 6 | 62 | 7 | 21 | 21 | NE | -688.00  | -703.00  | 1233.00 | 87.20  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 151 | 1050693 | 535815 |   | 87-84  |   |   | 6 | 62 | 7 | 28 | 28 | NE | -851.00  | -483.00  | 1202.00 | 55.00  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 152 | 1050695 | 535788 |   | 87-80  |   |   | 6 | 62 | 7 | 35 | 35 | NE | -748.00  | -483.00  | 1216.00 | 76.00  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 153 | 1050696 | 535607 |   | 87-90A |   |   | 6 | 62 | 7 | 35 | 35 | NE | -418.00  | -52.00   | 1216.00 | 21.50  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 154 | 1050698 | 536391 |   | 82     |   |   | 6 | 63 | 4 | 32 | 32 | NE | -1402.10 | -603.50  | 941.80  | 4.60   | 670800 | 880400 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 155 | 1050699 | 536408 |   | 70A    |   |   | 6 | 63 | 5 | 18 | 18 | NE | -1007.00 | -1005.80 | 1033.30 | 8.10   | 670800 | 880400 | 7  | ALBERTA RESEARCH COUNCIL      |   |   |
| 156 | 1050700 | 535757 |   | 87-87  |   |   | 6 | 63 | 6 | 6  | 6  | NE | -402.00  | -681.00  | 1162.00 | 55.00  | 871200 | 891200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 157 | 1050701 | 535755 |   | 8787CH |   |   | 6 | 63 | 6 | 6  | 6  | NE | -402.00  | -688.00  | 1162.00 | 51.00  | 871200 | 891200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 158 | 1050702 | 535773 |   | 87-88  |   |   | 6 | 63 | 7 | 2  | 2  | NE | -883.00  | -383.00  | 1185.00 | 61.00  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |
| 159 | 1050703 | 535781 |   | 8788CH |   |   | 6 | 63 | 7 | 3  | 3  | NE | -712.00  | -1232.00 | 1225.00 | 73.30  | 871200 | 921200 | 43 | ESSO RESOURCES CANADA LIMITED |   |   |

**Appendix 2. 83L/7 - GSC/ISPG (Dawson) Coal Trench Data from the Wapiti Project**

Between 1988 and 1990, Dawson of the GSC/ISPG excavated, described and sampled a number of coal outcrops and hand-dug trenches in the Wapiti area of northwestern Alberta.

Copies of thirty three trench logs have been provided to the Alberta Geological Survey (AGS) for use, as required, in the Coal Compilation Project (CCP). Said trenches have been distributed over a large area (specifically, within NTS mapsheets 83K, 83L and 83M). The following table provides summary data concerning the trench logs; it should also be noted that many of the trenches are located outside of the coverage of the CCP for 1990/91. An 'X' in the 'CQ' column indicates that coal quality data has also been included on the trench log.

| <u>Trench</u><br><u>Designation</u> | <u>Formation</u> | <u>Coal Measure</u> | <u>NTS</u><br><u>Mapsheet</u> | <u>CQ</u> | <u>Applicable to</u><br><u>CCP 1990/91</u> |
|-------------------------------------|------------------|---------------------|-------------------------------|-----------|--------------------------------------------|
| WA89006                             | SCOLLARD         | KAKWA               | 83K/12                        | X         |                                            |
| WA89012                             | SCOLLARD         | KAKWA               | 83K/12                        | X         |                                            |
| WA89002                             | SCOLLARD         | KAKWA               | 83L/1                         | X         |                                            |
| WA89001                             | SCOLLARD         | KAKWA               | 83L/2                         | X         | X                                          |
| WA89003                             | SCOLLARD         | KAKWA               | 83L/2                         | X         | X                                          |
| WA90002                             | WAPITI           | CUTBANK             | 83L/3                         | X         | X                                          |
| WA90003                             | WAPITI           | CUTBANK             | 83L/3                         | X         | X                                          |
| WA90004                             | WAPITI           | CUTBANK             | 83L/3                         |           | X                                          |
| WA88008                             | WAPITI           | CUTBANK             | 83L/5                         |           |                                            |
| WA88009                             | WAPITI           | CUTBANK             | 83L/5                         | X         |                                            |
| WA90005                             | SCOLLARD         | ENTRANCE            | 83L/6                         | X         |                                            |
| WA90006                             | WAPITI           | CUTBANK             | 83L/6                         | X         |                                            |
| WA90007                             | WAPITI           | CUTBANK             | 83L/6                         | X         |                                            |
| WA90008                             | SCOLLARD         | ENTRANCE            | 83L/6                         | X         |                                            |
| WA88004                             | WAPITI           | CUTBANK             | 83L/6                         | X         |                                            |
| <b>WA88002</b>                      | <b>SCOLLARD</b>  | <b>KAKWA</b>        | <b>83L/7</b>                  | <b>X</b>  | <b>X</b>                                   |
| <b>WA89004</b>                      | <b>SCOLLARD</b>  | <b>KAKWA</b>        | <b>83L/7</b>                  | <b>X</b>  | <b>X</b>                                   |
| WA88001                             | SCOLLARD         | KAKWA               | 83L/8                         | X         |                                            |
| WA89005                             | WAPITI           | CUTBANK             | 83L/8                         | X         |                                            |
| WA89008                             | SCOLLARD         | KAKWA               | 83L/8                         | X         |                                            |
| WA88006                             | SCOLLARD         | KAKWA               | 83L/9                         | X         |                                            |

| <u>Trench</u>      | <u>Formation</u> | <u>Coal Measure</u> | <u>NTS</u>      | <u>CQ</u> | <u>Applicable to</u> |
|--------------------|------------------|---------------------|-----------------|-----------|----------------------|
| <u>Designation</u> |                  |                     | <u>Mapsheet</u> |           | <u>CCP 1990/91</u>   |
| WA89009            | SCOLLARD         | KAKWA               | 83L/9           |           |                      |
| WA89010            | SCOLLARD         | KAKWA               | 83L/9           | X         |                      |
| WA88005            | WAPITI           | CUTBANK             | 83L/11          | X         |                      |
| WA88010            | WAPITI           | CUTBANK             | 83L/11          | X         |                      |
| WA89011            | WAPITI           | RED WILLOW          | 83L/12          | X         |                      |
| WA90009            | SCOLLARD         | ENTRANCE            | 83L/12          | X         |                      |
| WA88003            | WAPITI           | RED WILLOW          | 83L/14          | X         |                      |
| WA88020            | WAPITI           | RED WILLOW          | 83L/14          | X         |                      |
| WA89007            | SCOLLARD         | KAKWA               | 83L/15          | X         |                      |
| WA88021            | WAPITI           | RED WILLOW          | 83M/2           | X         |                      |
| WA88019            | WAPITI           | RED WILLOW          | 83M/3           | X         |                      |
| WA88014            | WAPITI           | BASAL               | 83M/8           | X         |                      |

The 2 trenches, that are located within the CCP mapsheet 83L/7, have been highlighted and italicized in the above table. Copies of the 2 noted trench logs follow





| DESCRIPTIVE<br>COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | COAL ZONE | SAMPLE<br>NUMBER | THICKNESS<br>(metres) | CHEMICAL ANALYSES            |                  |          |           |           |        | PETROGRAPHIC<br>ANALYSES<br>(VOLUME %) |      |          |           |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|------------------|-----------------------|------------------------------|------------------|----------|-----------|-----------|--------|----------------------------------------|------|----------|-----------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |           |                  |                       | H <sub>2</sub> O<br>(A.R.B.) | C.V.<br>(BTU/lb) | ASH<br>% | V.M.<br>% | F.C.<br>% | S<br>% | Rrand                                  | Rmax | Huminite | Vitrinite | Inertinite |
| ROOF<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>< |  |           |                  |                       |                              |                  |          |           |           |        |                                        |      |          |           |            |

Appendix 3. 831/7 - Oil and Gas Wells; Status and Formation Tops



Site ID: 95063 Source ID: 00/11-20-061-04W6/0

Latitude: 54.293396 Well Length: 3385.000  
Longitude: 118.565383  
KB Elevation: 1143.000 Status: Abandoned Well

Well Name: CDN-SUP ET AL PRAIRIER 11-20-61-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 175.600         | 576.116       | WAPIABI FM            | WPBI    |
| 1905.000        | 6250.000      | COLORADO GRP          | COLO    |
| 2001.500        | 6566.601      | BADHEART FM           | BADH    |
| 2071.500        | 6796.260      | CARDIUM FM            | CARD    |
| 2110.000        | 6922.572      | CARDIUM SD            | CARD SD |
| 2130.000        | 6988.189      | KASKAPAU FM           | KPAU    |
| 2562.500        | 8407.152      | DUNVEGAN FM           | DUNV    |
| 2643.000        | 8671.260      | SHAFTESBURY FM        | SHIFT   |
| 2721.000        | 8927.166      | BASE FISH SCALES ZONE | BFSC    |
| 2783.500        | 9132.218      | PADDY MBR             | PADY    |
| 2801.000        | 9189.633      | CADOTTE MBR           | CDOT    |
| 2825.800        | 9270.998      | HARMON MBR            | HARM    |
| 2834.000        | 9297.900      | SPIRIT RIVER FM       | SPRT R  |
| 3124.000        | 10249.344     | BLUESKY FM            | BLSK    |
| 3145.000        | 10318.242     | GETHING FM            | GETH    |
| 3245.000        | 10646.326     | CADOMIN FM            | CADM    |
| 3252.000        | 10669.292     | NIKANASSIN FM         | NIKA    |
| 3345.300        | 10975.395     | FERNIE GRP            | FERN    |

Site ID: 95068 Source ID: 00/07-33-061-04W6/0

Latitude: 54.316909 Well Length: 4462.900  
Longitude: 118.531211  
KB Elevation: 1102.500 Status: Abandoned Well

Well Name: CANDEL ET AL KAKWA 7-33-61-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name         |          |
|-----------------|---------------|----------------------|----------|
| 1761.700        | 5779.855      | WAPIABI FM           | WPBI     |
| 1937.000        | 6354.987      | BADHEART FM          | BADH     |
| 2014.100        | 6607.940      | CARDIUM FM           | CARD     |
| 2037.000        | 6683.071      | CARDIUM SD           | CARD SD  |
| 2473.500        | 8115.158      | DUNVEGAN FM          | DUNV     |
| 2523.100        | 8277.888      | SHAFTESBURY FM       | SHFT     |
| 2626.800        | 8618.110      | BASE FISH SCALES ZON | BFSC     |
| 2696.000        | 8845.145      | PEACE RIVER FM       | PR       |
| 2760.000        | 9055.118      | SPIRIT RIVER FM      | SPRT R   |
| 3028.200        | 9935.039      | GETHING FM           | GETH     |
| 3143.100        | 10312.009     | CADOMIN FM           | CADM     |
| 3156.200        | 10354.987     | NIKANASSIN FM        | NIKA     |
| 3234.800        | 10612.861     | FERNIE GRP           | FERN     |
| 3323.800        | 10904.856     | NORDEGG MBR          | NORD     |
| 3343.700        | 10970.145     | TRIASSIC SYSTEM      | TRIA SYS |
| 3371.700        | 11062.008     | DOIG FM              | DOIG     |
| 3389.400        | 11120.079     | MONTNEY FM           | MONT     |
| 3590.500        | 11779.856     | BELLOY FM            | BELL     |
| 3625.600        | 11895.014     | DEBOLT FM            | DBLT     |
| 3746.000        | 12290.026     | SHUNDA FM            | SHUN     |
| 3892.900        | 12771.981     | PEKISKO FM           | PEK      |
| 3946.600        | 12948.163     | BANFF FM             | BNFF     |
| 4119.100        | 13514.108     | EXSHAW FM            | EX       |
| 4122.400        | 13524.935     | WABAMUN GRP          | WAB      |
| 4338.800        | 14234.908     | WINTERBURN GRP       | WINT     |
| 4411.100        | 14472.113     | IRETON FM            | IRE      |
| 4420.800        | 14503.937     | LEDUC FM             | LED      |

Site ID: 95069      Source ID: 00/09-33-061-04W6/0

Latitude: 54.321885      Well Length: 2002.000  
Longitude: 118.529491  
KB Elevation: 1095.200      Status: Suspended Well

Well Name: CANHUNTER JAYAR 9-33-61-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1683.000        | 5521.654      | WAPIABI FM   | WPBI |
| 1728.500        | 5670.932      | CHINOOK MBR  | CHNK |
| 1825.500        | 5989.173      | COLORADO GRP | COLO |
| 1923.000        | 6309.055      | BADHEART FM  | BADH |
| 1998.300        | 6556.103      | CARDIUM FM   | CARD |
| 2002.000        | 6568.242      | TOTAL DEPTH  | TD   |

Site ID: 95070      Source ID: 00/15-34-061-04W6/0

Latitude: 54.323593      Well Length: 2685.000  
Longitude: 118.507594  
KB Elevation: 1038.100      Status: Flowing Oil Well

Well Name: CANHUNTER DOME JAYAR 15-34-61-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1609.000        | 5278.872      | WAPIABI FM            | WPBI    |
| 1753.500        | 5752.953      | COLORADO GRP          | COLO    |
| 1853.000        | 6079.396      | BADHEART FM           | BADH    |
| 1925.000        | 6315.617      | CARDIUM FM            | CARD    |
| 1953.000        | 6407.480      | CARDIUM SD            | CARD SD |
| 1974.000        | 6476.378      | KASKAPAU FM           | KPAU    |
| 2406.000        | 7893.701      | DUNVEGAN FM           | DUNV    |
| 2480.000        | 8136.483      | SHAFTESBURY FM        | HFT     |
| 2555.000        | 8382.546      | BASE FISH SCALES ZONE | BFSC    |
| 2631.000        | 8631.890      | PADDY MBR             | PADY    |
| 2636.000        | 8648.294      | CADOTTE MBR           | CDOT    |
| 2685.000        | 8809.056      | TOTAL DEPTH           | TD      |

Site ID: 95073      Source ID: 00/06-08-061-05W6/0

Latitude: 54.257703      Well Length: 3253.000  
Longitude: 118.716517  
KB Elevation: 1233.400      Status: Abandoned Well

Well Name: AMMIN SMOKY 6-8-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |        |
|-----------------|---------------|-----------------------|--------|
| 2141.500        | 7025.919      | BADHEART FM           | BADH   |
| 2222.000        | 7290.026      | CARDIUM FM            | CARD   |
| 2277.500        | 7472.113      | KASKAPAU FM           | KPAU   |
| 2730.500        | 8958.334      | DUNVEGAN FM           | DUNV   |
| 2825.500        | 9270.014      | SHAFTESBURY FM        | SHIFT  |
| 2934.000        | 9625.984      | BASE FISH SCALES ZONE | BFSC   |
| 3001.500        | 9847.441      | PADDY MBR             | PADY   |
| 3014.800        | 9891.076      | CADOTTE MBR           | CDOT   |
| 3041.000        | 9977.034      | HARMON MBR            | HARM   |
| 3048.500        | 10001.641     | SPIRIT RIVER FM       | SPRT R |

Site ID: 95074 Source ID: 00/05-10-061-05W6/0

Latitude: 54.258719 Well Length: 3350.000  
Longitude: 118.667540  
KB Elevation: 1155.900 Status: Suspended Well

Well Name: SHELL CHIME 5-10-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1832.000        | 6010.499      | WAPIABI FM            | WPBI    |
| 1865.500        | 6120.407      | CHINOOK MBR           | CHNK    |
| 2087.000        | 6847.113      | BADHEART FM           | BADH    |
| 2164.000        | 7099.738      | CARDIUM FM            | CARD    |
| 2177.000        | 7142.389      | CARDIUM SD            | CARD SD |
| 2207.000        | 7240.814      | KASKAPAU FM           | KPAU    |
| 2640.500        | 8663.058      | DUNVEGAN FM           | DUNV    |
| 2735.000        | 8973.098      | SHAFTESBURY FM        | SHFT    |
| 2851.000        | 9353.675      | BASE FISH SCALES ZONE | BFSC    |
| 2910.000        | 9547.244      | PADDY MBR             | PADY    |
| 2922.000        | 9586.614      | CADOTTE MBR           | CDOT    |
| 2946.000        | 9665.354      | HARMON MBR            | HARM    |
| 2970.000        | 9744.095      | SPIRIT RIVER FM       | SPRT R  |
| 3251.000        | 10666.011     | BLUESKY FM            | BLSK    |
| 3275.500        | 10746.392     | GETHING FM            | GETH    |



Site ID: 95075

Source ID: 00/06-13-061-05W6/0

Latitude: 54.272536

Well Length: 3273.000

Longitude: 118.615524

KB Elevation: 1041.400

Status: Abandoned Well

Well Name: DOME ET AL JAYAR 6-13-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1689.000        | 5541.339      | WAPIABI FM            | WPBI    |
| 1721.000        | 5646.326      | CHINOOK MBR           | CHNK    |
| 1934.000        | 6345.145      | BADHEART FM           | BADH    |
| 2015.000        | 6610.893      | CARDIUM FM            | CARD    |
| 2050.000        | 6725.722      | CARDIUM SD            | CARD SD |
| 2064.000        | 6771.654      | KASKAPAU FM           | KPAU    |
| 2477.000        | 8126.641      | DUNVEGAN FM           | DUNV    |
| 2572.300        | 8439.305      | SHAFTESBURY FM        | SHIFT   |
| 2676.000        | 8779.528      | BASE FISH SCALES ZONE | BFSC    |
| 2728.000        | 8950.132      | PADDY MBR             | PADY    |
| 2753.000        | 9032.152      | CADOTTE MBR           | CDOT    |
| 2777.900        | 9113.845      | HARMON MBR            | HARM    |
| 2787.000        | 9143.701      | SPIRIT RIVER FM       | SPRT R  |
| 3083.000        | 10114.830     | BLUESKY FM            | BLSK    |
| 3107.000        | 10193.570     | GETHING FM            | GETH    |
| 3195.000        | 10482.284     | CADOMIN FM            | CADM    |
| 3203.000        | 10508.530     | NIKANASSIN FM         | NIKA    |
| 3273.000        | 10738.189     | TOTAL DEPTH           | TD      |

Site ID: 95076      Source ID: 00/05-26-061-05W6/0

Latitude:      54.302555      Well Length:    195.000  
Longitude:    118.642801  
KB Elevation:    1083.600      Status:    Abandoned Well

Well Name:    PCP CDN-SUP AMMIN KAKWA 5-26-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name    |           |
|-----------------|---------------|-----------------|-----------|
| 195.000         | 639.764       | NONE IDENTIFIED | NONE IDEN |

Site ID: 95077      Source ID: 02/05-26-061-05W6/0

Latitude: 54.302555      Well Length: 2110.000  
Longitude: 118.642708  
KB Elevation: 1083.600      Status: Suspended Oilwell

Well Name: PCP CDN-SUP AMMIN KAKWA A5-26-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1691.000        | 5547.900      | WAPIABI FM   | WPBI    |
| 1714.200        | 5624.016      | CHINOOK MBR  | CHNK    |
| 1843.100        | 6046.916      | COLORADO GRP | COLO    |
| 1938.800        | 6360.893      | BADHEART FM  | BADH    |
| 2013.700        | 6606.627      | CARDIUM FM   | CARD    |
| 2049.000        | 6722.441      | CARDIUM SD   | CARD SD |
| 2067.800        | 6784.121      | KASKAPAU FM  | KPAU    |

Site ID: 95078 Source ID: 00/07-30-061-05W6/0

Latitude: 54.301808 Well Length: 3330.000  
Longitude: 118.730700  
KB Elevation: 1054.200 Status: Suspended Well

Well Name: DOME ET AL KAKWA 7-30-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1594.000        | 5229.659      | WAPIABI FM            | WPBI    |
| 1627.000        | 5337.927      | CHINOOK MBR           | CHNK    |
| 1745.000        | 5725.066      | COLORADO GRP          | COLO    |
| 1848.000        | 6062.992      | BADHEART FM           | BADH    |
| 1924.000        | 6312.336      | CARDIUM FM            | CARD    |
| 1937.500        | 6356.627      | CARDIUM SD            | CARD SD |
| 1970.000        | 6463.255      | KASKAPAU FM           | KPAU    |
| 2456.000        | 8057.743      | DUNVEGAN FM           | DUNV    |
| 2580.000        | 8464.567      | SHAFTESBURY FM        | SHIFT   |
| 2641.000        | 8664.698      | BASE FISH SCALES ZONE | BFSC    |
| 2689.000        | 8822.179      | PADDY MBR             | PADY    |
| 2707.000        | 8881.233      | CADOTTE MBR           | CDOT    |
| 2733.000        | 8966.536      | HARMON MBR            | HARM    |
| 2758.000        | 9048.557      | SPIRIT RIVER FM       | SPRT R  |
| 2813.700        | 9231.300      | FALHER MBR            | FALH    |
| 3048.000        | 10000.000     | BLUESKY FM            | BLSK    |
| 3057.500        | 10031.168     | GETHING FM            | GETH    |
| 3173.000        | 10410.105     | CADOMIN FM            | CADM    |
| 3186.000        | 10452.756     | NIKANASSIN FM         | NIKA    |
| 3259.000        | 10692.258     | FERNIE GRP            | FERN    |

Site ID: 152246      Source ID: 02/07-30-061-05W6/0

Latitude:      54.301441      Well Length:      1993.000

Longitude:      118.731294

KB Elevation:      969.400      Status:      Abandoned Well

Well Name:      DOME ET AL CHIME 7-30C-61-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1587.500        | 5208.333      | WAPIABI FM   | WPBI    |
| 1624.500        | 5329.725      | CHINOOK MBR  | CHNK    |
| 1847.000        | 6059.711      | BADHEART FM  | BADH    |
| 1868.000        | 6128.609      | MUSKIKI FM   | MSKK    |
| 1923.000        | 6309.055      | CARDIUM FM   | CARD    |
| 1957.000        | 6420.604      | CARDIUM SD   | CARD SD |
| 1972.000        | 6469.816      | KASKAPAU FM  | KPAU    |
| 1993.000        | 6538.714      | TOTAL DEPTH  | TD      |

Site ID: 152248      Source ID: 00/10-18-061-06W6/0

Latitude:      54.278240      Well Length:      1800.000  
Longitude:      118.882222  
KB Elevation:      1077.100      Status:      Suspended Oilwell

Well Name:      CHIEFCO AMERADA CHICKEN 10-18-61-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1708.000        | 5603.675      | WAPIABI FM   | WPBI |
| 1738.000        | 5702.100      | CHINOOK MBR  | CHNK |
| 1800.000        | 5905.512      | TOTAL DEPTH  | TD   |

Site ID: 152249

Source ID: 00/13-21-061-06W6/0

Latitude: 54.294612

Well Length: 1875.000

Longitude: 118.843174

KB Elevation: 1174.600

Status: Suspended Well

Well Name: CHIEFCO AMERADA CAW 13-21-61-6

Depth  
Meters

Depth  
Feet

Horizon Name

1796.000  
1831.500  
1875.000

5892.389  
6008.858  
6151.575

WAPIABI FM  
CHINOOK MBR  
TOTAL DEPTH

WPBI  
CHNK  
TD



Site ID: 95079

Source ID: 00/06-27-061-06W6/0

Latitude: 54.302063

Well Length: 3435.000

Longitude: 118.816832

KB Elevation: 1092.800

Status: Suspended Well

Well Name: DOME ET AL MUSREAU 6-27-61-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1709.500        | 5608.596      | WAPIABI FM            | WPBI    |
| 1751.000        | 5744.751      | CHINOOK MBR           | CHNK    |
| 1871.000        | 6138.452      | COLORADO GRP          | COLO    |
| 1972.000        | 6469.816      | BADHEART FM           | BADH    |
| 2074.500        | 6806.103      | CARDIUM FM            | CARD    |
| 2090.500        | 6858.596      | CARDIUM SD            | CARD SD |
| 2100.000        | 6889.764      | KASKAPAU FM           | KPAU    |
| 2612.000        | 8569.554      | DUNVEGAN FM           | DUNV    |
| 2662.000        | 8733.596      | SHAFTESBURY FM        | SHIFT   |
| 2784.000        | 9133.858      | BASE FISH SCALES ZONE | BFSC    |
| 2858.000        | 9376.641      | PADDY MBR             | PADY    |
| 2875.000        | 9432.415      | CADOTTE MBR           | CDOT    |
| 2904.000        | 9527.560      | HARMON MBR            | HARM    |
| 2914.500        | 9562.008      | SPIRIT RIVER FM       | SPRT R  |
| 2962.000        | 9717.848      | FALHER MBR            | FALH    |
| 3225.500        | 10582.350     | BLUESKY FM            | BLSK    |
| 3240.000        | 10629.922     | GETHING FM            | GETH    |
| 3347.000        | 10980.972     | CADOMIN FM            | CADM    |
| 3353.000        | 11000.656     | NIKANASSIN FM         | NIKA    |

Site ID: 95080

Source ID: 00/06-27-061-06W6/2

Latitude: 54.302063

Well Length: 3435.000

Longitude: 118.816832

KB Elevation: 1092.800

Status: Capped Gaswell

Well Name: DOME ET AL MUSREAU 6-27-61-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1709.500        | 5608.596      | WAPIABI FM            | WPBI    |
| 1751.000        | 5744.751      | CHINOOK MBR           | CHNK    |
| 1871.000        | 6138.452      | COLORADO GRP          | COLO    |
| 1972.000        | 6469.816      | BADHEART FM           | BADH    |
| 2074.500        | 6806.103      | CARDIUM FM            | CARD    |
| 2090.500        | 6858.596      | CARDIUM SD            | CARD SD |
| 2100.000        | 6889.764      | KASKAPAU FM           | KPAU    |
| 2612.000        | 8569.554      | DUNVEGAN FM           | DUNV    |
| 2662.000        | 8733.596      | SHAFTESBURY FM        | SHIFT   |
| 2784.000        | 9133.858      | BASE FISH SCALES ZONE | BFSC    |
| 2858.000        | 9376.641      | PADDY MBR             | PADY    |
| 2875.000        | 9432.415      | CADOTTE MBR           | CDOT    |
| 2904.000        | 9527.560      | HARMON MBR            | HARM    |
| 2914.500        | 9562.008      | SPIRIT RIVER FM       | SPRT R  |
| 2962.000        | 9717.848      | FALHER MBR            | FALH    |
| 3225.500        | 10582.350     | BLUESKY FM            | BLSK    |
| 3240.000        | 10629.922     | GETHING FM            | GETH    |
| 3347.000        | 10980.972     | CADOMIN FM            | CADM    |
| 3353.000        | 11000.656     | NIKANASSIN FM         | NIKA    |

Site ID: 95081 Source ID: 00/06-27-061-06W6/3

Latitude: 54.302063 Well Length: 3435.000  
Longitude: 118.816832  
KB Elevation: 1092.800 Status: Capped Gaswell

Well Name: DOME ET AL MUSREAU 6-27-61-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1709.500        | 5608.596      | WAPIABI FM            | WPBI    |
| 1751.000        | 5744.751      | CHINOOK MBR           | CHNK    |
| 1871.000        | 6138.452      | COLORADO GRP          | COLO    |
| 1972.000        | 6469.816      | BADHEART FM           | BADH    |
| 2074.500        | 6806.103      | CARDIUM FM            | CARD    |
| 2090.500        | 6858.596      | CARDIUM SD            | CARD SD |
| 2100.000        | 6889.764      | KASKAPAU FM           | KPAU    |
| 2612.000        | 8569.554      | DUNVEGAN FM           | DUNV    |
| 2662.000        | 8733.596      | SHAFTESBURY FM        | SHIFT   |
| 2784.000        | 9133.858      | BASE FISH SCALES ZONE | BFSC    |
| 2858.000        | 9376.641      | PADDY MBR             | PADY    |
| 2875.000        | 9432.415      | CADOTTE MBR           | CDOT    |
| 2904.000        | 9527.560      | HARMON MBR            | HARM    |
| 2914.500        | 9562.008      | SPIRIT RIVER FM       | SPRT R  |
| 2962.000        | 9717.848      | FALHER MBR            | FALH    |
| 3225.500        | 10582.350     | BLUESKY FM            | BLSK    |
| 3240.000        | 10629.922     | GETHING FM            | GETH    |
| 3347.000        | 10980.972     | CADOMIN FM            | CADM    |
| 3353.000        | 11000.656     | NIKANASSIN FM         | NIKA    |

Site ID: 146705      Source ID: 00/10-13-061-07W6/0

Latitude:      54.278472      Well Length:      3456.000  
Longitude:      118.906577  
KB Elevation:      1078.900      Status:      Standing Well

Well Name:      DOME ET AL CHICKEN 10-13-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 170.300         | 558.727       | WAPIABI FM            | WPBI    |
| 1734.000        | 5688.977      | CHINOOK MBR           | CHNK    |
| 1868.700        | 6130.906      | COLORADO GRP          | COLO    |
| 1965.800        | 6449.476      | BADHEART FM           | BADH    |
| 2063.300        | 6769.357      | CARDIUM FM            | CARD    |
| 2090.000        | 6856.956      | CARDIUM SD            | CARD SD |
| 2104.300        | 6903.872      | KASKAPAU FM           | KPAU    |
| 2605.700        | 8548.885      | DUNVEGAN FM           | DUNV    |
| 2785.500        | 9138.780      | SHAFTESBURY FM        | SHFT    |
| 2828.600        | 9280.185      | BASE FISH SCALES ZONE | BFSC    |
| 2906.300        | 9535.105      | PADDY MBR             | PADY    |
| 2927.700        | 9605.315      | CADOTTE MBR           | CDOT    |
| 2949.700        | 9677.493      | HARMON MBR            | HARM    |
| 2967.400        | 9735.564      | NOTIKEWIN MBR         | NOTI    |
| 2995.300        | 9827.101      | FALHER MBR            | FALH    |
| 3288.500        | 10789.042     | BLUESKY FM            | BLSK    |
| 3302.000        | 10833.334     | GETHING FM            | GETH    |
| 3411.800        | 11193.570     | CADOMIN FM            | CADM    |
| 3422.000        | 11227.034     | NIKANASSIN FM         | NIKA    |
| 3456.000        | 11338.583     | TOTAL DEPTH           | TD      |

Site ID: 95083 Source ID: 00/13-25-061-07W6/0

Latitude: 54.308736 Well Length: 3653.000

Longitude: 118.917525

KB Elevation: 1151.200 Status: Suspended Well

Well Name: DOME KAKWA 13-25-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1741.000        | 5711.942      | WAPIABI FM            | WPBI    |
| 1780.000        | 5839.895      | CHINOOK MBR           | CHNK    |
| 1818.000        | 5964.567      | COLORADO GRP          | COLO    |
| 2008.000        | 6587.927      | BADHEART FM           | BADH    |
| 2107.000        | 6912.730      | CARDIUM FM            | CARD    |
| 2132.000        | 6994.751      | CARDIUM SD            | CARD SD |
| 2145.000        | 7037.402      | KASKAPAU FM           | KPAU    |
| 2697.000        | 8848.426      | DUNVEGAN FM           | DUNV    |
| 2800.000        | 9186.352      | SHAFTESBURY FM        | SHIFT   |
| 2870.000        | 9416.011      | BASE FISH SCALES ZONE | BFSC    |
| 2954.000        | 9691.602      | PADDY MBR             | PADY    |
| 2976.000        | 9763.780      | CADOTTE MBR           | CDOT    |
| 3001.000        | 9845.801      | HARMON MBR            | HARM    |
| 3018.000        | 9901.575      | SPIRIT RIVER FM       | SPRT R  |
| 3332.000        | 10931.759     | BLUESKY FM            | BLSK    |
| 3335.000        | 10941.602     | GETHING FM            | GETH    |
| 3455.500        | 11336.942     | CADOMIN FM            | CADM    |
| 3464.000        | 11364.830     | NIKANASSIN FM         | NIKA    |
| 3635.000        | 11925.854     | FERNIE GRP            | FERN    |

Site ID: 95084 Source ID: 00/13-25-061-07W6/2

Latitude: 54.308736 Well Length: 3653.000  
Longitude: 118.917525  
KB Elevation: 1151.200 Status: Suspended Well

Well Name: DOME KAKWA 13-25-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1741.000        | 5711.942      | WAPIABI FM            | WPBI    |
| 1780.000        | 5839.895      | CHINOOK MBR           | CHNK    |
| 1818.000        | 5964.567      | COLORADO GRP          | COLO    |
| 2008.000        | 6587.927      | BADHEART FM           | BADH    |
| 2107.000        | 6912.730      | CARDIUM FM            | CARD    |
| 2132.000        | 6994.751      | CARDIUM SD            | CARD SD |
| 2145.000        | 7037.402      | KASKAPAU FM           | KPAU    |
| 2697.000        | 8848.426      | DUNVEGAN FM           | DUNV    |
| 2800.000        | 9186.352      | SHAFTESBURY FM        | SHIFT   |
| 2870.000        | 9416.011      | BASE FISH SCALES ZONE | BFSC    |
| 2954.000        | 9691.602      | PADDY MBR             | PADY    |
| 2976.000        | 9763.780      | CADOTTE MBR           | CDOT    |
| 3001.000        | 9845.801      | HARMON MBR            | HARM    |
| 3018.000        | 9901.575      | SPIRIT RIVER FM       | SPRT R  |
| 3332.000        | 10931.759     | BLUESKY FM            | BLSK    |
| 3335.000        | 10941.602     | GETHING FM            | GETH    |
| 3455.500        | 11336.942     | CADOMIN FM            | CADM    |
| 3464.000        | 11364.830     | NIKANASSIN FM         | NIKA    |
| 3635.000        | 11925.854     | FERNIE GRP            | FERN    |

Site ID: 146706      Source ID: 00/15-25-061-07W6/0

Latitude:      54.309119      Well Length:      1767.000  
Longitude:      118.907189  
KB Elevation:      1081.500      Status:      Capped Gaswell

Well Name:      DOME ET AL CHICKEN 15-25-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1667.000        | 5469.160      | WAPIABI FM   | WPBI |
| 1704.800        | 5593.176      | CHINOOK MBR  | CHNK |
| 1767.000        | 5797.244      | TOTAL DEPTH  | TD   |



Site ID: 152250      Source ID: 00/05-27-061-07W6/0

Latitude:      54.301997      Well Length:      2010.000

Longitude:      118.968059

KB Elevation:      1327.000      Status:      Pumping Oilwell

Well Name:      DOME ET AL CHICKEN 5-27-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1903.000        | 6243.438      | WAPIABI FM   | WPBI |
| 1941.000        | 6368.110      | CHINOOK MBR  | CHNK |
| 2010.000        | 6594.488      | TOTAL DEPTH  | TD   |

Site ID: 140934      Source ID: 00/10-28-061-07W6/0

Latitude:      54.307260      Well Length:      1977.000  
Longitude:      118.980339  
KB Elevation:      1312.900      Status:      Pumping Oilwell

Well Name:      DOME ET AL CHICKEN 10-28-61-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1906.500        | 6254.921      | WAPIABI FM   | WPBI |
| 1931.000        | 6335.302      | CHINOOK MBR  | CHNK |
| 1977.000        | 6486.221      | TOTAL DEPTH  | TD   |

Site ID: 141011      Source ID: 00/06-03-062-04W6/0

Latitude:      54.331543      Well Length:      1943.000

Longitude:      118.515780

KB Elevation:      1006.500      Status:      Flowing Oilwell

Well Name:      DOME GULF KAKWA 6-3-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1632.500        | 5355.971      | WAPIABI FM   | WPBI    |
| 1711.000        | 5613.517      | CHINOOK MBR  | CHNK    |
| 1730.000        | 5675.853      | COLORADO GRP | COLO    |
| 1809.500        | 5936.680      | BADHEART FM  | BADH    |
| 1829.500        | 6002.297      | MUSKIKI FM   | MSKK    |
| 1879.500        | 6166.339      | CARDIUM FM   | CARD    |
| 1908.000        | 6259.843      | CARDIUM SD   | CARD SD |
| 1943.000        | 6374.672      | TOTAL DEPTH  | TD      |

Site ID: 96142 Source ID: 00/10-03-062-04W6/0

Latitude: 54.337449 Well Length: 3217.400  
Longitude: 118.506262  
KB Elevation: 1060.200 Status: Suspended Oilwell

Well Name: DOME KAKWA 10-3-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1607.000        | 5272.310      | WAPIABI FM            | WPBI     |
| 1747.000        | 5731.627      | COLORADO GRP          | COLO     |
| 1842.000        | 6043.307      | BADHEART FM           | BADH     |
| 1908.500        | 6261.483      | CARDIUM FM            | CARD     |
| 1941.000        | 6368.110      | CARDIUM SD            | CARD SD  |
| 1958.500        | 6425.525      | KASKAPAU FM           | KPAU     |
| 2422.000        | 7946.194      | DUNVEGAN FM           | DUNV     |
| 2501.000        | 8205.381      | SHAFTESBURY FM        | SHIFT    |
| 2577.500        | 8456.365      | BASE FISH SCALES ZONE | BFSC     |
| 2652.000        | 8700.788      | PADDY MBR             | PADY     |
| 2659.000        | 8723.754      | CADOTTE MBR           | CDOT     |
| 2687.500        | 8817.258      | HARMON MBR            | HARM     |
| 2698.000        | 8851.706      | NOTIKEWIN MBR         | NOTI     |
| 2730.000        | 8956.693      | FALHER A              | FALHER A |
| 2918.000        | 9573.491      | WILRICH MBR           | WILR     |
| 2984.500        | 9791.667      | BLUESKY FM            | BLSK     |
| 3004.000        | 9855.644      | GETHING FM            | GETH     |
| 3106.000        | 10190.289     | CADOMIN FM            | CADM     |
| 3113.000        | 10213.255     | NIKANASSIN FM         | NIKA     |
| 3198.000        | 10492.126     | FERNE GRP             | FERN     |

Site ID: 141012

Source ID: 00/10-03-062-04W6/2

Latitude: 54.337449

Well Length: 3217.400

Longitude: 118.506262

KB Elevation: 1060.200

Status: Flowing Oilwell

Well Name: DOME KAKWA 10-3-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1607.000        | 5272.310      | WAPIABI FM            | WPBI     |
| 1747.000        | 5731.627      | COLORADO GRP          | COLO     |
| 1842.000        | 6043.307      | BADHEART FM           | BADH     |
| 1908.500        | 6261.483      | CARDIUM FM            | CARD     |
| 1941.000        | 6368.110      | CARDIUM SD            | CARD SD  |
| 1958.500        | 6425.525      | KASKAPAU FM           | KPAU     |
| 2422.000        | 7946.194      | DUNVEGAN FM           | DUNV     |
| 2501.000        | 8205.381      | SHAFTESBURY FM        | SHIFT    |
| 2577.500        | 8456.365      | BASE FISH SCALES ZONE | BFSC     |
| 2652.000        | 8700.788      | PADDY MBR             | PADY     |
| 2659.000        | 8723.754      | CADOTTE MBR           | CDOT     |
| 2687.500        | 8817.258      | HARMON MBR            | HARM     |
| 2698.000        | 8851.706      | NOTLEWIN MBR          | NOTI     |
| 2730.000        | 8956.693      | FALHER A              | FALHER A |
| 2918.000        | 9573.491      | WILRICH MBR           | WILR     |
| 2984.500        | 9791.667      | BLUESKY FM            | BLSK     |
| 3004.000        | 9855.644      | GETHING FM            | GETH     |
| 3106.000        | 10190.289     | CADOMIN FM            | CADM     |
| 3113.000        | 10213.255     | NIKANASSIN FM         | NIKA     |
| 3198.000        | 10492.126     | FERNIE GRP            | FERN     |

Site ID: 96143      Source ID: 00/09-04-062-04W6/0

Latitude: 54.337641      Well Length: 2470.000  
Longitude: 118.529785  
KB Elevation: 952.700      Status: Abandoned Oilwell

Well Name: DOME ET AL KAKWA 9-4-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name   |         |
|-----------------|---------------|----------------|---------|
| 1514.000        | 4967.192      | WAPIABI FM     | WPBI    |
| 1561.500        | 5123.032      | CHINOOK MBR    | CHNK    |
| 1656.000        | 5433.071      | COLORADO GRP   | COLO    |
| 1756.000        | 5761.155      | BADHEART FM    | BADH    |
| 1825.000        | 5987.533      | CARDIUM FM     | CARD    |
| 1853.500        | 6081.037      | CARDIUM SD     | CARD SD |
| 1875.500        | 6153.215      | KASKAPAU FM    | KPAU    |
| 2332.000        | 7650.919      | DUNVEGAN FM    | DUNV    |
| 2456.000        | 8057.743      | SHAFTESBURY FM | SHIFT   |

Site ID: 152298      Source ID: 00/09-04-062-04W6/2

Latitude:      54.337641      Well Length:      2470.000  
Longitude:      118.529785  
KB Elevation:      952.700      Status:      Suspended Well

Well Name:      DOME ET AL KAKWA 9-4-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name   |         |
|-----------------|---------------|----------------|---------|
| 1514.000        | 4967.192      | WAPIABI FM     | WPBI    |
| 1561.500        | 5123.032      | CHINOOK MBR    | CHNK    |
| 1656.000        | 5433.071      | COLORADO GRP   | COLO    |
| 1756.000        | 5761.155      | BADHEART FM    | BADH    |
| 1825.000        | 5987.533      | CARDIUM FM     | CARD    |
| 1853.500        | 6081.037      | CARDIUM SD     | CARD SD |
| 1875.500        | 6153.215      | KASKAPAU FM    | KPAU    |
| 2332.000        | 7650.919      | DUNVEGAN FM    | DUNV    |
| 2456.000        | 8057.743      | SHAFTESBURY FM | SHIFT   |



Site ID: 96144 Source ID: 00/06-05-062-04W6/0

Latitude: 54.331370 Well Length: 2600.000  
Longitude: 118.566103  
KB Elevation: 1108.800 Status: Suspended Well

Well Name: CANHUNTER KAKWA 6-5-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name            |         |
|-----------------|---------------|-------------------------|---------|
| 1691.500        | 5549.541      | WAPIABI FM              | WPBI    |
| 1736.000        | 5695.538      | CHINOOK MBR             | CHNK    |
| 1834.000        | 6017.061      | COLORADO GRP            | COLO    |
| 1929.000        | 6328.740      | BADHEART FM             | BADH    |
| 1998.000        | 6555.118      | CARDIUM FM              | CARD    |
| 2032.000        | 6666.667      | CARDIUM SD              | CARD SD |
| 2053.500        | 6737.205      | KASKAPAU FM             | KPAU    |
| 2361.000        | 7746.063      | SECOND WHITE SPECKLED S | H2WS    |
| 2475.000        | 8120.079      | DUNVEGAN FM             | DUNV    |
| 2570.500        | 8433.399      | SHAFTESBURY FM          | SHIFT   |
| 2600.000        | 8530.184      | TOTAL DEPTH             | TD      |

Site ID: 141013      Source ID: 00/15-07-062-04W6/0

Latitude:      54.352956      Well Length:      1910.000  
Longitude:      118.581039  
KB Elevation:      972.800      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 15-7-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1535.000        | 5036.089      | WAPIABI FM   | WPBI    |
| 1578.000        | 5177.166      | CHINOOK MBR  | CHNK    |
| 1672.000        | 5485.564      | COLORADO GRP | COLO    |
| 1768.000        | 5800.525      | BADHEART FM  | BADH    |
| 1791.500        | 5877.625      | MUSKIKI FM   | MSKK    |
| 1844.000        | 6049.869      | CARDIUM FM   | CARD    |
| 1873.500        | 6146.654      | CARDIUM SD   | CARD SD |
| 1895.000        | 6217.192      | KASKAPAU FM  | KPAU    |
| 1910.000        | 6266.404      | TOTAL DEPTH  | TD      |

Site ID: 96145 Source ID: 00/02-08-062-04W6/0

Latitude: 54.343334 Well Length: 4980.000  
Longitude: 118.567548  
KB Elevation: 1126.200 Status: Suspended Well

Well Name: CDN-SUP ET AL KAKWA 2-8-62-4

NOTE: Data lines, in *italics*, represent true vertical depths.  
Data lines, in plain text, represent as-drilled depths.

| Depth<br>Meters | Depth<br>Feet    | Horizon Name          |             |
|-----------------|------------------|-----------------------|-------------|
| 1694.500        | 5559.383         | WAPIABI FM            | WPBI        |
| 1783.000        | 5849.738         | COLORADO GRP          | COLO        |
| 1928.500        | 6327.100         | BADHEART FM           | BADH        |
| 2001.500        | 6566.601         | CARDIUM FM            | CARD        |
| 2031.000        | 6663.386         | CARDIUM SD            | CARD SD     |
| 2053.500        | 6737.205         | KASKAPAU FM           | KPAU        |
| 2473.000        | 8113.517         | DUNVEGAN FM           | DUNV        |
| 2527.000        | 8290.683         | SHAFTESBURY FM        | SHIFT       |
| 2630.000        | 8628.609         | BASE FISH SCALES ZONE | BFSC        |
| 2696.000        | 8845.145         | PADDY MBR             | PADY        |
| 2711.500        | 8895.998         | CADOTTE MBR           | CDOT        |
| 2738.000        | 8982.939         | HARMON MBR            | HARM        |
| 2748.500        | 9017.389         | SPIRIT RIVER FM       | SPRT R      |
| 3035.500        | 9958.990         | GETHING FM            | GETH        |
| 3161.500        | 10372.376        | CADOMIN FM            | CADM        |
| 3170.000        | 10400.263        | NIKANASSIN FM         | NIKA        |
| <i>3254.000</i> | <i>10675.854</i> | <i>FERNIE GRP</i>     | <i>FERN</i> |
| 3259.000        | 10692.258        | FERNIE GRP            | FERN        |
| 3334.000        | 10938.320        | NORDEGG MBR           | NORD        |
| 3357.000        | 11013.780        | DOIG FM               | DOIG        |
| 3407.500        | 11179.462        | MONTNEY FM            | MONT        |
| <i>3607.500</i> | <i>11835.630</i> | <i>BELLOY FM</i>      | <i>BELL</i> |
| 3609.000        | 11840.552        | BELLOY FM             | BELL        |
| <i>3636.500</i> | <i>11930.774</i> | <i>DEBOLT FM</i>      | <i>DBLT</i> |
| 3637.500        | 11934.056        | DEBOLT FM             | DBLT        |
| <i>3821.500</i> | <i>12537.730</i> | <i>SHUNDA FM</i>      | <i>SHUN</i> |
| 3826.500        | 12554.134        | SHUNDA FM             | SHUN        |
| <i>3894.000</i> | <i>12775.591</i> | <i>PEKISKO FM</i>     | <i>PEK</i>  |
| 3905.500        | 12813.320        | PEKISKO FM            | PEK         |
| <i>3958.000</i> | <i>12985.564</i> | <i>BANFF FM</i>       | <i>BNFF</i> |
| 3968.500        | 13020.014        | BANFF FM              | BNFF        |
| <i>4125.500</i> | <i>13535.105</i> | <i>WABAMUN GRP</i>    | <i>WAB</i>  |
| 4151.000        | 13618.767        | WABAMUN GRP           | WAB         |
| <i>4325.500</i> | <i>14191.273</i> | <i>WINTERBURN GRP</i> | <i>WINT</i> |

|          |           |                |      |
|----------|-----------|----------------|------|
| 4369.500 | 14335.631 | WINTERBURN GRP | WINT |
| 4377.500 | 14361.877 | CALMAR FM      | CALM |
| 4383.000 | 14379.922 | NISKU FM       | NIS  |
| 4396.000 | 14422.572 | IRETON FM      | IRE  |
| 4408.500 | 14463.583 | LEDUC FM       | LED  |
| 4428.000 | 14527.560 | CALMAR FM      | CALM |
| 4434.000 | 14547.244 | NISKU FM       | NIS  |
| 4448.000 | 14593.177 | IRETON FM      | IRE  |
| 4462.000 | 14639.108 | LEDUC FM       | LED  |

Site ID: 141014      Source ID: 00/16-08-062-04W6/0

Latitude:      54.352635      Well Length:      1869.400  
Longitude:      118.554332  
KB Elevation:      1017.800      Status:      Flowing Oilwell

Well Name:      CDN-SUP ET AL JAYAR 16-8-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1551.500        | 5090.223      | WAPIABI F:M  | WPBI |
| 1599.000        | 5246.063      | CHINOOK MBR  | CHNK |
| 1693.000        | 5554.462      | COLORADO GRP | COLO |
| 1789.000        | 5869.423      | BADHEART FM  | BADH |
| 1862.500        | 6110.564      | CARDIUM FM   | CARD |
| 1869.400        | 6133.202      | TOTAL DEPTH  | TD   |

Site ID: 141015      Source ID: 00/08-09-062-04W6/0

Latitude:      54.345461      Well Length:      1865.000  
Longitude:      118.529944  
KB Elevation:      952.000      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 8-9-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name  |         |
|-----------------|---------------|---------------|---------|
| 1555.000        | 5101.706      | WAPIABI FM    | WPBI    |
| 1633.000        | 5357.612      | CHINOOK MBR   | CHNK    |
| 1653.000        | 5423.229      | COLORADO GRP  | COLO    |
| 1731.500        | 5680.774      | BADHEART FM   | BADH    |
| 1750.500        | 5743.110      | MUSKIKI FM    | MSKK    |
| 1799.500        | 5903.872      | CARDIUM FM    | CARD    |
| 1828.000        | 5997.375      | CARDIUM SD    | CARD SD |
| 1850.000        | 6069.554      | BLACKSTONE FM | BKST    |
| 1865.000        | 6118.767      | TOTAL DEPTH   | TD      |

Site ID: 152299      Source ID: 00/14-09-062-04W6/0

Latitude:      54.352468      Well Length:      1805.000  
Longitude:      118.540238  
KB Elevation:      937.600      Status:      Flowing Oilwell

Well Name:      CANHUNTER ET AL KAKWA 14-9-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1473.000        | 4832.677      | WAPIABI FM   | WPBI |
| 1518.000        | 4980.315      | CHINOOK MBR  | CHNK |
| 1612.000        | 5288.714      | COLORADO GRP | COLO |
| 1711.000        | 5613.517      | BADHEART FM  | BADH |
| 1730.000        | 5675.853      | MUSKIKI FM   | MSKK |
| 1778.000        | 5833.333      | CARDIUM FM   | CARD |
| 1805.000        | 5921.916      | TOTAL DEPTH  | TD   |



Site ID: 96146 Source ID: 00/16-09-062-04W6/0

Latitude: 54.353115 Well Length: 2407.000  
Longitude: 118.528649  
KB Elevation: 991.100 Status: Flowing Oilwell

Well Name: CANHUNTER ET AL JAYAR 16-9-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1552.000        | 5091.864      | WAPIABI FM   | WPBI    |
| 1575.500        | 5168.963      | CHINOOK MBR  | CHNK    |
| 1669.000        | 5475.722      | COLORADO GRP | COLO    |
| 1766.500        | 5795.604      | BADHEART FM  | BADH    |
| 1831.000        | 6007.218      | CARDIUM FM   | CARD    |
| 1865.000        | 6118.767      | CARDIUM SD   | CARD SD |
| 1883.000        | 6177.822      | KASKAPAU FM  | KPAU    |
| 2336.500        | 7665.683      | DUNVEGAN FM  | DUNV    |
| 2407.000        | 7896.982      | TOTAL DEPTH  | TD      |

Site ID: 141016      Source ID: 00/02-10-062-04W6/0

Latitude:      54.344415      Well Length:      1973.000  
Longitude:      118.507487  
KB Elevation:      1055.600      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 2-10-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1665.000        | 5462.599      | WAPIABI FM   | WPBI    |
| 1741.000        | 5711.942      | CHINOOK MBR  | CHNK    |
| 1760.500        | 5775.919      | COLORADO GRP | COLO    |
| 1838.000        | 6030.184      | BADHEART FM  | BADH    |
| 1859.500        | 6100.722      | MUSKIKI FM   | MSKK    |
| 1906.500        | 6254.921      | CARDIUM FM   | CARD    |
| 1933.500        | 6353.347      | CARDIUM SD   | CARD SD |
| 1956.500        | 6418.963      | KASKAPAU FM  | KPAU    |
| 1973.000        | 6473.097      | TOTAL DEPTH  | TD      |

Site ID: 96147      Source ID: 00/10-10-062-04W6/0

Latitude: 54.350565      Well Length: 1916.800

Longitude: 118.507968

KB Elevation: 1042.700      Status: Flowing Oilwell

Well Name: CANHUNTER ET AL JAYAR 10-10-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1601.500        | 5254.265      | WAPIABI FM   | WPBI |
| 1642.500        | 5388.780      | CHINOOK MBR  | CHNK |
| 1735.500        | 5693.898      | COLORADO GRP | COLO |
| 1834.000        | 6017.061      | BADHEART FM  | BADH |
| 1909.000        | 6263.124      | CARDIUM FM   | CARD |
| 1916.800        | 6288.714      | TOTAL DEPTH  | TD   |

Site ID: 141017      Source ID: 00/12-15-062-04W6/0

Latitude:      54.366508      Well Length:    1950.000  
Longitude:    118.519290  
KB Elevation:    1024.600      Status:    Abandoned Well

Well Name:      CANHUNTER ET AL KAKWA 12-15-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1573.000        | 5160.761      | WAPIABI FM   | WPBI    |
| 1621.500        | 5319.882      | CHINOOK MBR  | CHNK    |
| 1714.000        | 5623.360      | COLORADO GRP | COLO    |
| 1811.000        | 5941.601      | BADHEART FM  | BADH    |
| 1831.500        | 6008.858      | MUSKIKI FM   | MSKK    |
| 1881.500        | 6172.900      | CARDIUM FM   | CARD    |
| 1909.000        | 6263.124      | CARDIUM SD   | CARD SD |
| 1929.500        | 6330.381      | KASKAPAU FM  | KPAU    |
| 1950.000        | 6397.638      | TOTAL DEPTH  | TD      |

Site ID: 96148      Source ID: 00/11-16-062-04W6/0

Latitude:      54.366598      Well Length:      1851.000  
Longitude:      118.540579  
KB Elevation:      996.700      Status:      Flowing Oilwell

Well Name:      CANHUNTER ET AL JAYAR 11-16-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1534.000        | 5032.809      | WAPIABI FM   | WPBI |
| 1576.000        | 5170.604      | CHINOOK MBR  | CHNK |
| 1669.000        | 5475.722      | COLORADO GRP | COLO |
| 1776.000        | 5826.772      | BADHEART FM  | BADH |
| 1843.500        | 6048.229      | CARDIUM FM   | CARD |
| 1851.000        | 6072.835      | TOTAL DEPTH  | TD   |

Site ID: 96149      Source ID: 00/06-17-062-04W6/0

Latitude:      54.360114      Well Length:      2540.000  
Longitude:      118.565421  
KB Elevation:      1069.100      Status:      Flowing Oilwell

Well Name:      CANHUNTER CDN-SUP KAKWA 6-17-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name   |         |
|-----------------|---------------|----------------|---------|
| 1599.500        | 5247.704      | WAPIABI FM     | WPBI    |
| 1735.000        | 5692.257      | COLORADO GRP   | COLO    |
| 1830.000        | 6003.937      | BADHEART FM    | BADH    |
| 1902.000        | 6240.158      | CARDIUM FM     | CARD    |
| 1931.500        | 6336.942      | CARDIUM SD     | CARD SD |
| 1957.000        | 6420.604      | KASKAPAU FM    | KPAU    |
| 2412.000        | 7913.386      | DUNVEGAN FM    | DUNV    |
| 2505.000        | 8218.504      | SHAFTESBURY FM | SHIFT   |
| 2540.000        | 8333.334      | TOTAL DEPTH    | TD      |

Site ID: 141018      Source ID: 00/16-18-062-04W6/0

Latitude:      54.368077      Well Length:      1880.000

Longitude:      118.577682

KB Elevation:      985.200      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 16-18-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1510.000        | 4954.068      | WAPIABI FM   | WPBI    |
| 1553.000        | 5095.145      | CHINOOK MBR  | CHNK    |
| 1646.000        | 5400.263      | COLORADO GRP | COLO    |
| 1740.000        | 5708.662      | BADHEART FM  | BADH    |
| 1814.000        | 5951.444      | CARDIUM FM   | CARD    |
| 1842.000        | 6043.307      | CARDIUM SD   | CARD SD |
| 1855.000        | 6085.958      | KASKAPAU FM  | KPAU    |
| 1880.000        | 6167.979      | TOTAL DEPTH  | TD      |



Site ID: 96150      Source ID: 00/06-19-062-04W6/0

Latitude: 54.374605      Well Length: 1720.000

Longitude: 118.591548

KB Elevation: 819.100      Status: Flowing Oilwell

Well Name: DOME ET AL KAKWA 6-19-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1340.000        | 4396.326      | WAPIABI FM   | WPBI    |
| 1386.000        | 4547.244      | CHINOOK MBR  | CHNK    |
| 1479.500        | 4854.003      | COLORADO GRP | COLO    |
| 1645.000        | 5396.982      | CARDIUM FM   | CARD    |
| 1675.000        | 5495.407      | CARDIUM SD   | CARD SD |
| 1697.000        | 5567.585      | KASKAPAU FM  | KPAU    |
| 1720.000        | 5643.045      | TOTAL DEPTH  | TD      |

Site ID: 141019      Source ID: 00/10-19-062-04W6/0

Latitude:      54.379873      Well Length:      1755.000  
Longitude:      118.580964  
KB Elevation:      868.800      Status:      Flowing Oilwell

Well Name:      DOME ET A KAKWA 10-19-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1384.500        | 4542.323      | WAPIABI FM   | WPBI    |
| 1430.000        | 4691.601      | CHINOOK MBR  | CHNK    |
| 1471.500        | 4827.756      | COLORADO GRP | COLO    |
| 1615.000        | 5298.557      | BADHEART FM  | BADH    |
| 1638.000        | 5374.016      | MUSKIKI FM   | MSKK    |
| 1688.600        | 5540.026      | CARDIUM FM   | CARD    |
| 1716.300        | 5630.906      | CARDIUM SD   | CARD SD |
| 1733.800        | 5688.320      | KASKAPAU FM  | KPAU    |
| 1755.000        | 5757.874      | TOTAL DEPTH  | TD      |

Site ID: 141020 Source ID: 00/05-20-062-04W6/0

Latitude: 54.375902 Well Length: 1756.600  
Longitude: 118.567286  
KB Elevation: 922.300 Status: Flowing Oilwell

Well Name: CANHUNTER ET AL KAKWA 5-20-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1439.500        | 4722.769      | WAPIABI FM   | WPBI |
| 1485.500        | 4873.688      | CHINOOK MBR  | CHNK |
| 1577.000        | 5173.885      | COLORADO GRP | COLO |
| 1672.500        | 5487.205      | BADHEART FM  | BADH |
| 1748.200        | 5735.564      | CARDIUM FM   | CARD |
| 1756.600        | 5763.124      | TOTAL DEPTH  | TD   |

Site ID: 96152 Source ID: 00/11-22-062-04W6/0

Latitude: 54.380790 Well Length: 3570.000  
Longitude: 118.515569  
KB Elevation: 1071.500 Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 11-22-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1618.500        | 5310.040      | WAPIABI FM            | WPBI     |
| 1746.000        | 5728.347      | COLORADO GRP          | COLO     |
| 1842.500        | 6044.948      | BADHEART FM           | BADH     |
| 1912.000        | 6272.966      | CARDIUM FM            | CARD     |
| 1939.000        | 6361.549      | CARDIUM SD            | CARD SD  |
| 1957.000        | 6420.604      | KASKAPAU FM           | KPAU     |
| 2324.000        | 7624.672      | DOE CREEK MBR         | DOECK    |
| 2359.000        | 7739.501      | DUNVEGAN FM           | DUNV     |
| 2408.000        | 7900.263      | SHAFTESBURY FM        | SHIFT    |
| 2521.000        | 8270.998      | BASE FISH SCALES ZONE | BFSC     |
| 2597.000        | 8520.342      | PADDY MBR             | PADY     |
| 2609.000        | 8559.712      | CADOTTE MBR           | CDOT     |
| 2631.000        | 8631.890      | HARMON MBR            | HARM     |
| 2639.000        | 8658.137      | SPIRIT RIVER FM       | SPRT R   |
| 2923.000        | 9589.896      | BLUESKY FM            | BLSK     |
| 2942.000        | 9652.231      | GETHING FM            | GETH     |
| 3045.000        | 9990.158      | CADOMIN FM            | CADM     |
| 3056.500        | 10027.888     | NIKANASSIN FM         | NIKA     |
| 3125.000        | 10252.625     | FERNIE GRP            | FERN     |
| 3208.000        | 10524.935     | NORDEGG MBR           | NORD     |
| 3230.000        | 10597.113     | TRIASSIC SYSTEM       | TRIA SYS |
| 3479.500        | 11415.683     | BELLOY FM             | BELL     |
| 3496.000        | 11469.816     | DEBOLT FM             | DBLT     |

Site ID: 141021

Source ID: 00/06-30-062-04W6/0

Latitude: 54.389837

Well Length: 1770.000

Longitude: 118.591365

KB Elevation: 900.600

Status: Flowing Oilwell

Well Name: DOME ET AL KAKWA 6-30-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1405.000        | 4609.580      | WAPIABI FM   | WPBI    |
| 1450.000        | 4757.218      | CHINOOK MBR  | CHNK    |
| 1541.500        | 5057.415      | COLORADO GRP | COLO    |
| 1635.000        | 5364.173      | BADHEART FM  | BADH    |
| 1658.000        | 5439.633      | MUSKIKI FM   | MSKK    |
| 1711.000        | 5613.517      | CARDIUM FM   | CARD    |
| 1735.700        | 5694.554      | CARDIUM SD   | CARD SD |
| 1752.500        | 5749.672      | KASKAPAU FM  | KPAU    |
| 1770.000        | 5807.087      | TOTAL DEPTH  | TD      |

Site ID: 96153      Source ID: 00/06-31-062-04W6/0

Latitude: 54.403244      Well Length: 2300.000  
Longitude: 118.590313  
KB Elevation: 959.400      Status: Suspended Well

Well Name: PRECAM ET AL KAKWA 6-31-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1526.000        | 5006.562      | WAPIABI FM   | WPBI    |
| 1597.000        | 5239.501      | COLORADO GRP | COLO    |
| 1693.000        | 5554.462      | BADHEART FM  | BADH    |
| 1763.000        | 5784.121      | CARDIUM FM   | CARD    |
| 1790.000        | 5872.704      | CARDIUM SD   | CARD SD |
| 1814.000        | 5951.444      | KASKAPAU FM  | KPAU    |
| 2236.000        | 7335.958      | DUNVEGAN FM  | DUNV    |
| 2300.000        | 7545.932      | TOTAL DEPTH  | TD      |

Site ID: 96154

Source ID: 00/06-31-062-04W6/2

Latitude: 54.403244

Well Length: 2300.000

Longitude: 118.590313

KB Elevation: 959.400

Status: Suspended Well

Well Name: PRECAM ET AL KAKWA 6-31-62-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1526.000        | 5006.562      | WAPIABI FM   | WPBI    |
| 1597.000        | 5239.501      | COLORADO GRP | COLO    |
| 1693.000        | 5554.462      | BADHEART FM  | BADH    |
| 1763.000        | 5784.121      | CARDIUM FM   | CARD    |
| 1790.000        | 5872.704      | CARDIUM SD   | CARD SD |
| 1814.000        | 5951.444      | KASKAPAU FM  | KPAU    |
| 2236.000        | 7335.958      | DUNVEGAN FM  | DUNV    |
| 2300.000        | 7545.932      | TOTAL DEPTH  | TD      |

Site ID: 96155 Source ID: 00/06-06-062-05W6/0

Latitude: 54.331551 Well Length: 3286.000  
Longitude: 118.740470  
KB Elevation: 1079.400 Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 6-6-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1723.000        | 5652.887      | WAPIABI FM            | WPBI    |
| 1811.500        | 5943.242      | COLORADO GRP          | COLO    |
| 1912.000        | 6272.966      | BADHEART FM           | BADH    |
| 1989.000        | 6525.591      | CARDIUM FM            | CARD    |
| 2023.000        | 6637.139      | CARDIUM SD            | CARD SD |
| 2036.500        | 6681.431      | KASKAPAU FM           | KPAU    |
| 2519.900        | 8267.389      | DUNVEGAN FM           | DUNV    |
| 2597.200        | 8520.997      | SHAFTESBURY FM        | SHIFT   |
| 2685.000        | 8809.056      | BASE FISH SCALES ZONE | BFSC    |
| 2767.500        | 9079.725      | PADDY MBR             | PADY    |
| 2779.000        | 9117.454      | CADOTTE MBR           | CDOT    |
| 2811.500        | 9224.082      | HARMON MBR            | HARM    |
| 2822.500        | 9260.171      | NOTIKWIN MBR          | NOTI    |
| 2882.800        | 9458.006      | FALHER MBR            | FALH    |
| 3064.800        | 10055.118     | WILRICH MBR           | WILR    |
| 3118.500        | 10231.300     | BLUESKY FM            | BLSK    |
| 3138.000        | 10295.276     | GETHING FM            | GETH    |
| 3240.000        | 10629.922     | CADOMIN FM            | CADM    |
| 3252.500        | 10670.932     | NIKANASSIN FM         | NIKA    |



Site ID: 96156 Source ID: 00/06-06-062-05W6/2

Latitude: 54.331551 Well Length: 3286.000  
Longitude: 118.740470  
KB Elevation: 1079.400 Status: Flowing Gaswell

Well Name: DOME ET AL KAKWA 6-6-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1723.000        | 5652.887      | WAPIABI FM            | WPBI    |
| 1811.500        | 5943.242      | COLORADO GRP          | COLO    |
| 1912.000        | 6272.966      | BADHEART FM           | BADH    |
| 1989.000        | 6525.591      | CARDIUM FM            | CARD    |
| 2023.000        | 6637.139      | CARDIUM SD            | CARD SD |
| 2036.500        | 6681.431      | KASKAPAU FM           | KPAU    |
| 2519.900        | 8267.389      | DUNVEGAN FM           | DUNV    |
| 2597.200        | 8520.997      | SHAFTESBURY FM        | SHIFT   |
| 2685.000        | 8809.056      | BASE FISH SCALES ZONE | BFSC    |
| 2767.500        | 9079.725      | PADDY MBR             | PADY    |
| 2779.000        | 9117.454      | CADOTTE MBR           | CDOT    |
| 2811.500        | 9224.082      | HARMON MBR            | HARM    |
| 2822.500        | 9260.171      | NOTIKWIN MBR          | NOTI    |
| 2882.800        | 9458.006      | FALHER MBR            | FALH    |
| 3064.800        | 10055.118     | WILRICH MBR           | WILR    |
| 3118.500        | 10231.300     | BLUESKY FM            | BLSK    |
| 3138.000        | 10295.276     | GETHING FM            | GETH    |
| 3240.000        | 10629.922     | CADOMIN FM            | CADM    |
| 3252.500        | 10670.932     | NIKANASSIN FM         | NIKA    |

Site ID: 96157 Source ID: 00/06-08-062-05W6/0

Latitude: 54.345743 Well Length: 3187.000  
Longitude: 118.716648  
KB Elevation: 988.000 Status: Flowing Gaswell

Well Name: DOME ET AL KAKWA 6-8-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1565.000        | 5134.515      | WAPIABI FM            | WPBI    |
| 1695.000        | 5561.024      | COLORADO GRP          | COLO    |
| 1800.000        | 5905.512      | BADHEART FM           | BADH    |
| 1873.000        | 6145.013      | CARDIUM FM            | CARD    |
| 1908.200        | 6260.499      | CARDIUM SD            | CARD SD |
| 1926.000        | 6318.898      | KASKAPAU FM           | KPAU    |
| 2394.000        | 7854.331      | DUNVEGAN FM           | DUNV    |
| 2495.600        | 8187.665      | SHAFTESBURY FM        | SHIFT   |
| 2559.000        | 8395.670      | BASE FISH SCALES ZONE | BFSC    |
| 2637.000        | 8651.575      | PADDY MBR             | PADY    |
| 2652.000        | 8700.788      | CADOTTE MBR           | CDOT    |
| 2684.000        | 8805.774      | HARMON MBR            | HARM    |
| 2691.000        | 8828.740      | SPIRIT RIVER FM       | SPRT R  |
| 2994.000        | 9822.835      | BLUESKY FM            | BLSK    |
| 3003.000        | 9852.362      | GETHING FM            | GETH    |
| 3116.000        | 10223.098     | CADOMIN FM            | CADM    |
| 3126.500        | 10257.546     | NIKANASSIN FM         | NIKA    |

Site ID: 96158

Source ID: 00/06-08-062-05W6/2

Latitude: 54.345743

Well Length: 3187.000

Longitude: 118.716648

KB Elevation: 988.000

Status: Flowing Gaswell

Well Name: DOME ET AL KAKWA 6-8-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1565.000        | 5134.515      | WAPIABI FM            | WPBI    |
| 1695.000        | 5561.024      | COLORADO GRP          | COLO    |
| 1800.000        | 5905.512      | BADHEART FM           | BADH    |
| 1873.000        | 6145.013      | CARDIUM FM            | CARD    |
| 1908.200        | 6260.499      | CARDIUM SD            | CARD SD |
| 1926.000        | 6318.898      | KASKAPAU FM           | KPAU    |
| 2394.000        | 7854.331      | DUNVEGAN FM           | DUNV    |
| 2495.600        | 8187.665      | SHAFTESBURY FM        | SHIFT   |
| 2559.000        | 8395.670      | BASE FISH SCALES ZONE | BFSC    |
| 2637.000        | 8651.575      | PADDY MBR             | PADY    |
| 2652.000        | 8700.788      | CADOTTE MBR           | CDOT    |
| 2684.000        | 8805.774      | HARMON MBR            | HARM    |
| 2691.000        | 8828.740      | SPIRIT RIVER FM       | SPRT R  |
| 2994.000        | 9822.835      | BLUESKY FM            | BLSK    |
| 3003.000        | 9852.362      | GETHING FM            | GETH    |
| 3116.000        | 10223.098     | CADOMIN FM            | CADM    |
| 3126.500        | 10257.546     | NIKANASSIN FM         | NIKA    |

Site ID: 96159 Source ID: 00/15-12-062-05W6/0

Latitude: 54.352266 Well Length: 3062.000  
Longitude: 118.605890  
KB Elevation: 905.500 Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 15-12-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1471.000        | 4826.116      | WAPIABI FM            | WPBI     |
| 1516.000        | 4973.753      | CHINOOK MBR           | CHNK     |
| 1612.500        | 5290.354      | COLORADO GRP          | COLO     |
| 1707.000        | 5600.394      | BADHEART FM           | BADH     |
| 1781.000        | 5843.176      | CARDIUM FM            | CARD     |
| 1814.000        | 5951.444      | CARDIUM SD            | CARD SD  |
| 1835.500        | 6021.982      | KASKAPAU FM           | KPAU     |
| 2206.000        | 7237.533      | DUNVEGAN FM           | DUNV     |
| 2327.000        | 7634.515      | SHAFTESBURY FM        | SHIFT    |
| 2427.000        | 7962.599      | BASE FISH SCALES ZONE | BFSC     |
| 2504.500        | 8216.864      | PADDY MBR             | PADY     |
| 2513.000        | 8244.751      | CADOTTE MBR           | CDOT     |
| 2537.500        | 8325.132      | HARMON MBR            | HARM     |
| 2548.000        | 8359.580      | NOTIKEWIN MBR         | NOTI     |
| 2569.000        | 8428.478      | FALHER A              | FALHER A |
| 2768.000        | 9081.365      | WILRICH MBR           | WILR     |
| 2843.500        | 9329.068      | BLUESKY FM            | BLSK     |
| 2846.500        | 9338.911      | GETHING FM            | GETH     |
| 2957.000        | 9701.444      | CADOMIN FM            | CADM     |
| 2966.000        | 9730.972      | NIKANASSIN FM         | NIKA     |
| 3044.500        | 9988.518      | FERNIE GRP            | FERN     |

Site ID: 96160      Source ID: 00/11-22-062-05W6/0

Latitude: 54.380437      Well Length: 2015.000

Longitude: 118.665908

KB Elevation: 1085.900      Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 11-22-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1619.000        | 5311.680      | WAPIABI FM   | WPBI    |
| 1755.500        | 5759.515      | COLORADO GRP | COLO    |
| 1851.000        | 6072.835      | BADHEART FM  | BADH    |
| 1922.000        | 6305.774      | CARDIUM FM   | CARD    |
| 1959.000        | 6427.166      | CARDIUM SD   | CARD SD |
| 1977.000        | 6486.221      | KASKAPAU FM  | KPAU    |

Site ID: 96161      Source ID: 00/08-23-062-05W6/0

Latitude: 54.375169      Well Length: 1815.000

Longitude: 118.629057

KB Elevation: 967.300      Status: Flowing Oilwell

Well Name: CANHUNTER ET AL KAKWA 8-23-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1490.000        | 4888.452      | WAPIABI FM   | WPBI |
| 1538.500        | 5047.572      | CHINOOK MBR  | CHNK |
| 1631.500        | 5352.690      | COLORADO GRP | COLO |
| 1724.500        | 5657.809      | BADHEART FM  | BADH |
| 1806.000        | 5925.197      | CARDIUM FM   | CARD |
| 1815.000        | 5954.725      | TOTAL DEPTH  | TD   |

Site ID: 152300      Source ID: 00/11-23-062-05W6/0

Latitude:      54.380237      Well Length:      1899.000  
Longitude:      118.642044  
KB Elevation:      1046.500      Status:      Flowing Oilwell

Well Name:      CANHUNTER ET AL KAKWA 11-23-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1562.000        | 5124.672      | WAPIABI FM   | WPBI |
| 1612.000        | 5288.714      | CHINOOK MBR  | CHNK |
| 1704.500        | 5592.192      | COLORADO GRP | COLO |
| 1795.000        | 5889.108      | BADHEART FM  | BADH |
| 1823.000        | 5980.971      | MUSKIKI FM   | MSKK |
| 1869.000        | 6131.890      | CARDIUM FM   | CARD |
| 1899.000        | 6230.315      | TOTAL DEPTH  | TD   |

Site ID: 96162      Source ID: 00/06-24-062-05W6/0

Latitude: 54.374572      Well Length: 3022.000  
Longitude: 118.616749  
KB Elevation: 929.000      Status: Capped Gaswell

Well Name: DOME ET AL CHIME 6-24-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1456.000        | 4776.903      | WAPIABI FM            | WPBI    |
| 1502.000        | 4927.822      | CHINOOK MBR           | CHNK    |
| 1596.000        | 5236.221      | COLORADO GRP          | COLO    |
| 1689.000        | 5541.339      | BADHEART FM           | BADH    |
| 1763.000        | 5784.121      | CARDIUM FM            | CARD    |
| 1795.000        | 5889.108      | CARDIUM SD            | CARD SD |
| 1817.000        | 5961.286      | KASKAPAU FM           | KPAU    |
| 2244.000        | 7362.205      | DUNVEGAN FM           | DUNV    |
| 2373.500        | 7787.074      | SHAFTESBURY FM        | SHFT    |
| 2404.000        | 7887.139      | BASE FISH SCALES ZONE | BFSC    |
| 2485.000        | 8152.887      | PEACE RIVER FM        | PR      |
| 2542.000        | 8339.896      | SPIRIT RIVER FM       | SPRT R  |
| 2827.000        | 9274.935      | BLUESKY FM            | BLSK    |
| 2833.000        | 9294.620      | GETHING FM            | GETH    |
| 2957.000        | 9701.444      | CADOMIN FM            | CADM    |
| 2966.000        | 9730.972      | NIKANASSIN FM         | NIKA    |



Site ID: 141022      Source ID: 00/16-24-062-05W6/0

Latitude:      54.382625      Well Length:      1765.000  
Longitude:      118.604674  
KB Elevation:      873.100      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 16-24-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1389.500        | 4558.727      | WAPIABI FM   | WPBI    |
| 1434.000        | 4704.725      | CHINOOK MBR  | CHNK    |
| 1526.500        | 5008.202      | COLORADO GRP | COLO    |
| 1619.000        | 5311.680      | BADHEART FM  | BADH    |
| 1693.000        | 5554.462      | CARDIUM FM   | CARD    |
| 1724.000        | 5656.168      | CARDIUM SD   | CARD SD |
| 1761.000        | 5777.559      | KASKAPAU FM  | KPAU    |
| 1765.000        | 5790.683      | TOTAL DEPTH  | TD      |

Site ID: 96163      Source ID: 00/04-25-062-05W6/0

Latitude: 54.388474      Well Length: 1900.000  
Longitude: 118.617740  
KB Elevation: 1007.400      Status: Suspended Well

Well Name: FRANCANA ET AL KAKWA 4-25-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1471.000        | 4826.116      | WAPIABI FM   | WPBI    |
| 1510.000        | 4954.068      | CHINOOK MBR  | CHNK    |
| 1608.500        | 5277.231      | COLORADO GRP | COLO    |
| 1753.000        | 5751.313      | BADHEART FM  | BADH    |
| 1826.500        | 5992.454      | CARDIUM FM   | CARD    |
| 1858.000        | 6095.801      | CARDIUM SD   | CARD SD |
| 1878.000        | 6161.417      | KASKAPAU FM  | KPAU    |

Site ID: 96164      Source ID: 00/04-25-062-05W6/2

Latitude: 54.388474      Well Length: 1900.000  
Longitude: 118.617740  
KB Elevation: 1007.400      Status: Flowing Oilwell

Well Name: FRANCANA ET AL KAKWA 4-25-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1471.000        | 4826.116      | WAPIABI FM   | WPBI    |
| 1510.000        | 4954.068      | CHINOOK MBR  | CHNK    |
| 1608.500        | 5277.231      | COLORADO GRP | COLO    |
| 1753.000        | 5751.313      | BADHEART FM  | BADH    |
| 1826.500        | 5992.454      | CARDIUM FM   | CARD    |
| 1858.000        | 6095.801      | CARDIUM SD   | CARD SD |
| 1878.000        | 6161.417      | KASKAPAU FM  | KPAU    |

Site ID: 141023      Source ID: 00/10-25-062-05W6/0

Latitude:      54.394588      Well Length:      1855.000  
Longitude:      118.607371  
KB Elevation:      980.000      Status:      Flowing Oilwell

Well Name:      SCEPTRE ET AL KAKWA 10-25-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1482.000        | 4862.205      | WAPIABI FM   | WPBI    |
| 1528.500        | 5014.764      | CHINOOK MBR  | CHNK    |
| 1620.000        | 5314.961      | COLORADO GRP | COLO    |
| 1711.000        | 5613.517      | BADHEART FM  | BADH    |
| 1785.000        | 5856.299      | CARDIUM FM   | CARD    |
| 1815.000        | 5954.725      | CARDIUM SD   | CARD SD |
| 1837.000        | 6026.903      | KASKAPAU FM  | KPAU    |
| 1855.000        | 6085.958      | TOTAL DEPTH  | TD      |

Site ID: 96165      Source ID: 00/06-26-062-05W6/0

Latitude: 54.388843      Well Length: 2460.000  
Longitude: 118.640202  
KB Elevation: 1033.800      Status: Flowing Oilwell

Well Name: CANHUNTER CDN-SUP KAKWA 6-26-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name   |         |
|-----------------|---------------|----------------|---------|
| 1553.000        | 5095.145      | WAPIABI FM     | WPBI    |
| 1778.500        | 5834.974      | BADHEART FM    | BADH    |
| 1852.000        | 6076.116      | CARDIUM FM     | CARD    |
| 1887.500        | 6192.585      | CARDIUM SD     | CARD SD |
| 1903.000        | 6243.438      | KASKAPAU FM    | KPAU    |
| 2333.000        | 7654.200      | DUNVEGAN FM    | DUNV    |
| 2417.000        | 7929.790      | SHAFTESBURY FM | SHFT    |
| 2460.000        | 8070.866      | TOTAL DEPTH    | TD      |

Site ID: 141024      Source ID: 00/16-26-062-05W6/0

Latitude:      54.396103      Well Length:      1838.000  
Longitude:      118.629946  
KB Elevation:      1009.300      Status:      Flowing Oilwell

Well Name:      CANHUNTER ET AL KAKWA 16-26-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1520.000        | 4986.877      | WAPIABI FM   | WPBI |
| 1563.000        | 5127.953      | CHINOOK MBR  | CHNK |
| 1658.000        | 5439.633      | COLORADO GRP | COLO |
| 1746.500        | 5729.987      | BADHEART FM  | BADH |
| 1822.000        | 5977.690      | CARDIUM FM   | CARD |
| 1838.600        | 6032.152      | TOTAL DEPTH  | TD   |

Site ID: 96166

Source ID: 00/16-27-062-05W6/0

Latitude: 54.396105

Well Length: 1815.000

Longitude: 118.654240

KB Elevation: 982.100

Status: Flowing Oilwell

Well Name: CANHUNTER ET AL KAKWA 16-27-62-5

Depth  
Meters

Depth  
Feet

Horizon Name

1427.000

4681.759

WAPIABI FM

WPBI

1584.800

5199.476

COLORADO GRP

COLO

1727.000

5666.011

BADHEART FM

BADH

1815.000

5954.725

TOTAL DEPTH

TD

Site ID: 96167      Source ID: 00/07-29-062-05W6/0

Latitude: 54.389580      Well Length: 3730.000  
Longitude: 118.706555  
KB Elevation: 1116.500      Status: Suspended Well

Well Name: ESSO UNION KAKWA 7-29-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1622.000        | 5321.522      | WAPIABI FM            | WPBI     |
| 1767.800        | 5799.869      | COLORADO GRP          | COLO     |
| 1861.000        | 6105.643      | BADHEART FM           | BADH     |
| 1933.000        | 6341.864      | CARDIUM FM            | CARD     |
| 1970.900        | 6466.208      | CARDIUM SD            | CARD SD  |
| 1978.600        | 6491.470      | KASKAPAU FM           | KPAU     |
| 2419.700        | 7938.648      | DUNVEGAN FM           | DUNV     |
| 2528.000        | 8293.964      | SHAFTESBURY FM        | SHIFT    |
| 2620.500        | 8597.441      | BASE FISH SCALES ZONE | BFSC     |
| 2700.200        | 8858.924      | PADDY MBR             | PADY     |
| 2721.400        | 8928.478      | CADOTTE MBR           | CDOT     |
| 2737.800        | 8982.284      | HARMON MBR            | HARM     |
| 2761.900        | 9061.352      | SPIRIT RIVER FM       | SPRT R   |
| 3053.000        | 10016.404     | BLUESKY FM            | BLSK     |
| 3070.200        | 10072.835     | GETHING FM            | GETH     |
| 3181.100        | 10436.681     | CADOMIN FM            | CADM     |
| 3186.500        | 10454.396     | NIKANASSIN FM         | NIKA     |
| 3298.700        | 10822.507     | FERNIE GRP            | FERN     |
| 3374.000        | 11069.554     | NORDEGG MBR           | NORD     |
| 3395.000        | 11138.452     | TRIASSIC SYSTEM       | TRIA SYS |
| 3484.200        | 11431.103     | MONTNEY FM            | MONT     |
| 3691.000        | 12109.580     | BELLOY FM             | BELL     |



Site ID: 152301      Source ID: 00/16-31-062-05W6/0

Latitude:      54.410876      Well Length:      1964.000  
Longitude:      118.729718  
KB Elevation:      1099.600      Status:      Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 16-31-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1596.000        | 5236.221      | WAPIABI FM   | WPBI    |
| 1639.500        | 5378.937      | CHINOOK MBR  | CHNK    |
| 1737.000        | 5698.819      | COLORADO GRP | COLO    |
| 1827.000        | 5994.095      | BADHEART FM  | BADH    |
| 1855.000        | 6085.958      | MUSKIKI FM   | MSKK    |
| 1902.000        | 6240.158      | CARDIUM FM   | CARD    |
| 1935.500        | 6350.066      | CARDIUM SD   | CARD SD |
| 1964.000        | 6443.570      | TOTAL DEPTH  | TD      |

Site ID: 96168

Source ID: 00/01-33-062-05W6/0

Latitude: 54.402726

Well Length: 1901.000

Longitude: 118.678750

KB Elevation: 1016.700

Status: Flowing Oilwell

Well Name: UNION ESSO KAKWA 1-33-62-5

Depth  
Meters

Depth  
Feet

Horizon Name

1542.000

5059.055

WAPIABI FM

WPBI

1670.000

5479.003

COLORADO GRP

COLO

1761.000

5777.559

BADHEART FM

BADH

1832.000

6010.499

CARDIUM FM

CARD

1866.000

6122.047

CARDIUM SD

CARD SD

1884.000

6181.103

KASKAPAU FM

KPAU

Site ID: 96169      Source ID: 00/09-34-062-05W6/0

Latitude: 54.409063      Well Length: 1867.000

Longitude: 118.653174

KB Elevation: 997.300      Status: Flowing Oilwell

Well Name: UNION ET AL KAKWA 9-34-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1426.300        | 4679.462      | WAPIABI FM   | WPBI    |
| 1584.500        | 5198.491      | COLORADO GRP | COLO    |
| 1729.500        | 5674.213      | BADHEART FM  | BADH    |
| 1805.000        | 5921.916      | CARDIUM FM   | CARD    |
| 1835.000        | 6020.341      | CARDIUM SD   | CARD SD |
| 1847.000        | 6059.711      | KASKAPAU FM  | KPAU    |
| 1867.000        | 6125.328      | TOTAL DEPTH  | TD      |

Site ID: 152302      Source ID: 00/02-35-062-05W6/0

Latitude:      54.402622      Well Length:      1840.000  
Longitude:      118.631465  
KB Elevation:      975.300      Status:      Flowing Oilwell

Well Name:      DOME ET AL KAKWA 2-35-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1474.000        | 4835.958      | WAPIABI FM   | WPBI    |
| 1518.000        | 4980.315      | CHINOOK MBR  | CHNK    |
| 1609.000        | 5278.872      | COLORADO GRP | COLO    |
| 1698.300        | 5571.851      | BADHEART FM  | BADH    |
| 1724.000        | 5656.168      | MUSKIKI FM   | MSKK    |
| 1770.000        | 5807.087      | CARDIUM FM   | CARD    |
| 1801.000        | 5908.793      | CARDIUM SD   | CARD SD |
| 1820.000        | 5971.129      | KASKAPAU FM  | KPAU    |
| 1840.000        | 6036.746      | TOTAL DEPTH  | TD      |

Site ID: 152303      Source ID: 00/06-35-062-05W6/0

Latitude:      54.404550      Well Length:      1850.000  
Longitude:      118.641413  
KB Elevation:      978.400      Status:      Suspended Oilwell

Well Name:      UNOCAL ET AL KAKWA 6-35-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1467.500        | 4814.633      | WAPIABI FM   | WPBI    |
| 1527.000        | 5009.843      | CHINOOK MBR  | CHNK    |
| 1619.500        | 5313.320      | COLORADO GRP | COLO    |
| 1710.500        | 5611.877      | BADHEART FM  | BADH    |
| 1736.000        | 5695.538      | MUSKIKI FM   | MSKK    |
| 1785.600        | 5858.268      | CARDIUM FM   | CARD    |
| 1815.500        | 5956.365      | CARDIUM SD   | CARD SD |
| 1849.200        | 6066.929      | TOTAL DEPTH  | TD      |

Site ID: 141025

Source ID: 00/03-36-062-05W6/0

Latitude: 54.402770

Well Length: 1842.000

Longitude: 118.617015

KB Elevation: 981.000

Status: Flowing Oilwell

Well Name: DOME ET AL KAKWA 3-36-62-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1474.000        | 4835.958      | WAPIABI FM   | WPBI    |
| 1523.500        | 4998.360      | CHINOOK MBR  | CHNK    |
| 1615.000        | 5298.557      | COLORADO GRP | COLO    |
| 1706.000        | 5597.113      | BADHEART FM  | BADH    |
| 1731.000        | 5679.134      | MUSKIKI FM   | MSKK    |
| 1760.000        | 5774.278      | CARDIUM FM   | CARD    |
| 1809.000        | 5935.040      | CARDIUM SD   | CARD SD |
| 1816.000        | 5958.005      | KASKAPAU FM  | KPAU    |
| 1842.000        | 6043.307      | TOTAL DEPTH  | TD      |

Site ID: 96170

Source ID: 00/09-07-062-06W6/0

Latitude: 54.351288

Well Length: 2635.000

Longitude: 118.879314

KB Elevation: 1198.300

Status: Abandoned Well

Well Name: ANDEX ET AL KAKWA 9-7-62-6

Depth  
Meters

Depth  
Feet

Horizon Name

1773.600

5818.898

WAPIABI FM

WPBI

2026.000

6646.982

BADHEART FM

BADH

2110.000

6922.572

CARDIUM FM

CARD

2138.000

7014.436

CARDIUM SD

CARD SD

Site ID: 96171

Source ID: 00/07-10-062-06W6/0

Latitude: 54.346658

Well Length: 3474.000

Longitude: 118.808857

KB Elevation: 1165.700

Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 7-10-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1722.500        | 5651.247      | WAPIABI FM            | WPBI     |
| 1762.000        | 5780.840      | CHINOOK MBR           | CHNK     |
| 1880.500        | 6169.620      | COLORADO GRP          | COLO     |
| 1986.000        | 6515.748      | BADHEART FM           | BADH     |
| 2053.000        | 6735.564      | CARDIUM FM            | CARD     |
| 2091.000        | 6860.236      | CARDIUM SD            | CARD SD  |
| 2100.500        | 6891.404      | KASKAPAU FM           | KPAU     |
| 2601.000        | 8533.465      | DUNVEGAN FM           | DUNV     |
| 2701.500        | 8863.189      | SHAFTESBURY FM        | SHIFT    |
| 2776.000        | 9107.612      | BASE FISH SCALES ZONE | BFSC     |
| 2865.000        | 9399.606      | PADDY MBR             | PADY     |
| 2873.500        | 9427.494      | CADOTTE MBR           | CDOT     |
| 2906.000        | 9534.121      | HARMON MBR            | HARM     |
| 2920.000        | 9580.053      | NOTIKEWIN MBR         | NOTI     |
| 3024.000        | 9921.260      | FALHER A              | FALHER A |
| 3162.000        | 10374.016     | WILRICH MBR           | WILR     |
| 3212.000        | 10538.058     | BLUESKY FM            | BLSK     |
| 3231.500        | 10602.034     | GETHING FM            | GETH     |
| 3337.000        | 10948.163     | CADOMIN FM            | CADM     |
| 3342.000        | 10964.567     | NIKANASSIN FM         | NIKA     |



Site ID: 96172 Source ID: 00/07-18-062-06W6/0

Latitude: 54.360486 Well Length: 3495.000  
Longitude: 118.881488  
KB Elevation: 1193.400 Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 7-18-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1743.600        | 5720.473      | WAPIABI FM            | WPBI    |
| 1900.000        | 6233.596      | COLORADO GRP          | COLO    |
| 1994.000        | 6541.995      | BADHEART FM           | BADH    |
| 2078.000        | 6817.585      | CARDIUM FM            | CARD    |
| 2110.000        | 6922.572      | CARDIUM SD            | CARD SD |
| 2126.500        | 6976.706      | KASKAPAU FM           | KPAU    |
| 2644.500        | 8676.182      | DUNVEGAN FM           | DUNV    |
| 2752.000        | 9028.872      | SHAFTESBURY FM        | SHIFT   |
| 2821.500        | 9256.890      | BASE FISH SCALES ZONE | BFSC    |
| 2918.500        | 9575.132      | PADDY MBR             | PADY    |
| 2926.000        | 9599.738      | CADOTTE MBR           | CDOT    |
| 2946.800        | 9667.979      | HARMON MBR            | HARM    |
| 2967.700        | 9736.549      | SPIRIT RIVER FM       | SPRT R  |
| 3279.500        | 10759.515     | GETHING FM            | GETH    |
| 3402.000        | 11161.418     | CADOMIN FM            | CADM    |
| 3410.500        | 11189.305     | NIKANASSIN FM         | NIKA    |

Site ID: 96173

Source ID: 00/07-23-062-06W6/0

Latitude: 54.374706

Well Length: 3276.000

Longitude: 118.781215

KB Elevation: 1101.900

Status: Flowing Gaswell

Well Name: DOME ET AL MUSREAU 7-23-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1568.000        | 5144.357      | WAPIABI FM            | WPBI    |
| 1666.000        | 5465.879      | CHINOOK MBR           | CHNK    |
| 1775.000        | 5823.491      | COLORADO GRP          | COLO    |
| 1874.000        | 6148.294      | BADHEART FM           | BADH    |
| 1946.000        | 6384.515      | CARDIUM FM            | CARD    |
| 1983.000        | 6505.906      | CARDIUM SD            | CARD SD |
| 2008.000        | 6587.927      | KASKAPAU FM           | KPAU    |
| 2491.000        | 8172.572      | DUNVEGAN FM           | DUNV    |
| 2591.000        | 8500.656      | SHAFTESBURY FM        | SHIFT   |
| 2660.000        | 8727.034      | BASE FISH SCALES ZONE | BFSC    |
| 2742.000        | 8996.063      | PADDY MBR             | PADY    |
| 2764.000        | 9068.242      | CADOTTE MBR           | CDOT    |
| 2784.000        | 9133.858      | HARMON MBR            | HARM    |
| 2807.000        | 9209.318      | SPIRIT RIVER FM       | SPRT R  |
| 3102.000        | 10177.166     | BLUESKY FM            | BLSK    |
| 3118.000        | 10229.659     | GETHING FM            | GETH    |
| 3221.000        | 10567.586     | CADOMIN FM            | CADM    |
| 3231.000        | 10600.394     | NIKANASSIN FM         | NIKA    |

Site ID: 96174

Source ID: 00/10-27-062-06W6/0

Latitude: 54.393496

Well Length: 3344.000

Longitude: 118.809436

KB Elevation: 1075.100

Status: Flowing Gaswell

Well Name: DOME ET AL KAKWA 10-27-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1602.000        | 5255.906      | WAPIABI FM            | WPBI    |
| 1729.500        | 5674.213      | COLORADO GRP          | COLO    |
| 1829.500        | 6002.297      | BADHEART FM           | BADH    |
| 1898.000        | 6227.034      | CARDIUM FM            | CARD    |
| 1934.000        | 6345.145      | CARDIUM SD            | CARD SD |
| 1940.000        | 6364.830      | KASKAPAU FM           | KPAU    |
| 2454.000        | 8051.181      | DUNVEGAN FM           | DUNV    |
| 2559.500        | 8397.310      | SHAFTESBURY FM        | SHIFT   |
| 2625.500        | 8613.846      | BASE FISH SCALES ZONE | BFSC    |
| 2713.000        | 8900.919      | PADDY MBR             | PADY    |
| 2730.500        | 8958.334      | CADOTTE MBR           | CDOT    |
| 2751.500        | 9027.231      | HARMON MBR            | HARM    |
| 2774.600        | 9103.019      | SPIRIT RIVER FM       | SPRT R  |
| 3072.500        | 10080.381     | BLUESKY FM            | BLSK    |
| 3093.000        | 10147.638     | GETHING FM            | GETH    |
| 3196.000        | 10485.564     | CADOMIN FM            | CADM    |
| 3209.000        | 10528.216     | NIKANASSIN FM         | NIKA    |

Site ID: 96175      Source ID: 00/11-27-062-06W6/0

Latitude: 54.395832      Well Length: 1990.000  
Longitude: 118.817023  
KB Elevation: 1084.000      Status: Abandoned Well

Well Name: ESSO UNION KAKWA 11-27C-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name  |         |
|-----------------|---------------|---------------|---------|
| 1591.300        | 5220.801      | WAPIABI FM    | WPBI    |
| 1734.100        | 5689.305      | COLORADO GRP  | COLO    |
| 1836.000        | 6023.622      | BADI HEART FM | BADH    |
| 1904.200        | 6247.375      | CARDIUM FM    | CARD    |
| 1937.500        | 6356.627      | CARDIUM SD    | CARD SD |
| 1948.200        | 6391.732      | KASKAPAU FM   | KPAU    |

Site ID: 96176

Source ID: 00/07-31-062-06W6/0

Latitude: 54.404085

Well Length: 3400.000

Longitude: 118.881380

KB Elevation: 1177.900

Status: Flowing Gaswell

Well Name: DOME MURPHY KAKWA 7-31-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1664.500        | 5460.958      | WAPIABI FM            | WPBI    |
| 1809.000        | 5935.040      | COLORADO GRP          | COLO    |
| 1901.000        | 6236.877      | BADHEART FM           | BADH    |
| 1981.000        | 6499.344      | CARDIUM FM            | CARD    |
| 2014.000        | 6607.612      | CARDIUM SD            | CARD SD |
| 2021.000        | 6630.578      | KASKAPAU FM           | KPAU    |
| 2549.000        | 8362.861      | DUNVEGAN FM           | DUNV    |
| 2645.500        | 8679.462      | SHAFTESBURY FM        | SHIFT   |
| 2737.200        | 8980.315      | BASE FISH SCALES ZONE | BFSC    |
| 2823.700        | 9264.107      | PADDY MBR             | PADY    |
| 2841.700        | 9323.163      | CADOTTE MBR           | CDOT    |
| 2863.400        | 9394.357      | HARMON MBR            | HARM    |
| 2880.000        | 9448.819      | SPIRIT RIVER FM       | SPRT R  |
| 3189.000        | 10462.599     | BLUESKY FM            | BLSK    |
| 3198.500        | 10493.767     | GETHING FM            | GETH    |
| 3314.000        | 10872.704     | CADOMIN FM            | CADM    |
| 3324.000        | 10905.512     | NIKANASSIN FM         | NIKA    |

Site ID: 96177

Source ID: 00/07-31-062-06W6/2

Latitude: 54.404085

Well Length: 3400.000

Longitude: 118.881380

KB Elevation: 1177.900

Status: Abandoned Gaswell

Well Name: DOME MURPHY KAKWA 7-31-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1664.500        | 5460.958      | WAPIABI FM            | WPBI    |
| 1809.000        | 5935.040      | COLORADO GRP          | COLO    |
| 1901.000        | 6236.877      | BADHEART FM           | BADH    |
| 1981.000        | 6499.344      | CARDIUM FM            | CARD    |
| 2014.000        | 6607.612      | CARDIUM SD            | CARD SD |
| 2021.000        | 6630.578      | KASKAPAU FM           | KPAU    |
| 2549.000        | 8362.861      | DUNVEGAN FM           | DUNV    |
| 2645.500        | 8679.462      | SHAFTESBURY FM        | SHFT    |
| 2737.200        | 8980.315      | BASE FISH SCALES ZONE | BFSC    |
| 2823.700        | 9264.107      | PADDY MBR             | PADY    |
| 2841.700        | 9323.163      | CADOTTE MBR           | CDOT    |
| 2863.400        | 9394.357      | HARMON MBR            | HARM    |
| 2880.000        | 9448.819      | SPIRIT RIVER FM       | SPRT R  |
| 3189.000        | 10462.599     | BLUESKY FM            | BLSK    |
| 3198.500        | 10493.767     | GETHING FM            | GETH    |
| 3314.000        | 10872.704     | CADOMIN FM            | CADM    |
| 3324.000        | 10905.512     | NIKANASSIN FM         | NIKA    |

Site ID: 96178      Source ID: 00/10-32-062-06W6/0

Latitude: 54.409635      Well Length: 2090.000  
Longitude: 118.856422  
KB Elevation: 1166.000      Status: Suspended Oilwell

Well Name: DOME KAKWA 10-32-62-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1660.000        | 5446.194      | WAPIABI FM   | WPBI    |
| 1806.300        | 5926.182      | COLORADO GRP | COLO    |
| 1910.500        | 6268.045      | BADHEART FM  | BADH    |
| 1975.000        | 6479.659      | CARDIUM FM   | CARD    |
| 2009.000        | 6591.208      | CARDIUM SD   | CARD SD |
| 2020.000        | 6627.297      | KASKAPAU FM  | KPAU    |

Site ID: 96179 Source ID: 00/07-10-062-07W6/0

Latitude: 54.345861 Well Length: 3580.000  
Longitude: 118.956779  
KB Elevation: 1214.600 Status: Suspended Well

Well Name: DOME ET AL KAKWA 7-10-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1940.000        | 6364.830      | COLORADO GRP          | COLO    |
| 2033.600        | 6671.916      | BADHEART FM           | BADH    |
| 2133.500        | 6999.672      | CARDIUM FM            | CARD    |
| 2156.000        | 7073.491      | CARDIUM SD            | CARD SD |
| 2172.000        | 7125.984      | KASKAPAU FM           | KPAU    |
| 2715.500        | 8909.121      | DUNVEGAN FM           | DUNV    |
| 2835.000        | 9301.182      | SHAFTESBURY FM        | SHIFT   |
| 2901.000        | 9517.717      | BASE FISH SCALES ZONE | BFSC    |
| 2984.500        | 9791.667      | PADDY MBR             | PADY    |
| 3006.500        | 9863.846      | CADOTTE MBR           | CDOT    |
| 3033.000        | 9950.788      | HARMON MBR            | HARM    |
| 3055.000        | 10022.966     | SPIRIT RIVER FM       | SPRT R  |
| 3361.000        | 11026.903     | BLUESKY FM            | BLSK    |
| 3367.000        | 11046.588     | GETHING FM            | GETH    |
| 3485.000        | 11433.728     | CADOMIN FM            | CADM    |
| 3497.000        | 11473.098     | NIKANASSIN FM         | NIKA    |



Site ID: 152305      Source ID: 00/07-21-062-07W6/0

Latitude:      54.374969      Well Length:      1814.000  
Longitude:      118.980896  
KB Elevation:      1221.000      Status:      Abandoned Well

Well Name:      CANHUNTER ET AL CHICKEN 7-21-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1735.000        | 5692.257      | WAPIABI FM   | WPBI |
| 1770.000        | 5807.087      | CHINOOK MBR  | CHNK |
| 1814.000        | 5951.444      | TOTAL DEPTH  | TD   |

Site ID: 96182

Source ID: 00/07-25-062-07W6/0

Latitude: 54.389372

Well Length: 3425.000

Longitude: 118.905072

KB Elevation: 1183.900

Status: Flowing Gaswell

Well Name: DOME CHICKEN 7-25-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1646.000        | 5400.263      | WAPIABI FM            | WPBI    |
| 1718.000        | 5636.483      | CHINOOK MBR           | CHNK    |
| 1840.000        | 6036.746      | COLORADO GRP          | COLO    |
| 1936.000        | 6351.706      | BADHEART FM           | BADH    |
| 2016.500        | 6615.814      | CARDIUM FM            | CARD    |
| 2050.000        | 6725.722      | CARDIUM SD            | CARD SD |
| 2071.500        | 6796.260      | KASKAPAU FM           | KPAU    |
| 2608.000        | 8556.431      | DUNVEGAN FM           | DUNV    |
| 2745.500        | 9007.546      | SHAFTESBURY FM        | SHIFT   |
| 2791.000        | 9156.824      | BASE FISH SCALES ZONE | BFSC    |
| 2879.000        | 9445.538      | PADDY MBR             | PADY    |
| 2893.000        | 9491.470      | CADOTTE MBR           | CDOT    |
| 2917.500        | 9571.851      | HARMON MBR            | HARM    |
| 2930.000        | 9612.861      | SPIRIT RIVER FM       | SPRT R  |
| 3007.000        | 9865.486      | FALHER MBR            | FALH    |
| 3248.500        | 10657.809     | BLUESKY FM            | BLSK    |
| 3252.000        | 10669.292     | GETHING FM            | GETH    |
| 3375.500        | 11074.476     | CADOMIN FM            | CADM    |
| 3382.000        | 11095.801     | NIKANASSIN FM         | NIKA    |

Site ID: 96183

Source ID: 00/07-25-062-07W6/2

Latitude: 54.389372

Well Length: 3425.000

Longitude: 118.905072

KB Elevation: 1183.900

Status: Suspended Gaswell

Well Name: DOME CHICKEN 7-25-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1646.000        | 5400.263      | WAPIABI FM            | WPBI    |
| 1718.000        | 5636.483      | CHINOOK MBR           | CHNK    |
| 1840.000        | 6036.746      | COLORADO GRP          | COLO    |
| 1936.000        | 6351.706      | BADHEART FM           | BADH    |
| 2016.500        | 6615.814      | CARDIUM FM            | CARD    |
| 2050.000        | 6725.722      | CARDIUM SD            | CARD SD |
| 2071.500        | 6796.260      | KASKAPAU FM           | KPAU    |
| 2608.000        | 8556.431      | DUNVEGAN FM           | DUNV    |
| 2745.500        | 9007.546      | SHAFTESBURY FM        | SHFT    |
| 2791.000        | 9156.824      | BASE FISH SCALES ZONE | BFSC    |
| 2879.000        | 9445.538      | PADDY MBR             | PADY    |
| 2893.000        | 9491.470      | CADOTTE MBR           | CDOT    |
| 2917.500        | 9571.851      | HARMON MBR            | HARM    |
| 2930.000        | 9612.861      | SPIRIT RIVER FM       | SPRT R  |
| 3007.000        | 9865.486      | FALHER MBR            | FALH    |
| 3248.500        | 10657.809     | BLUESKY FM            | BLSK    |
| 3252.000        | 10669.292     | GETHING FM            | GETH    |
| 3375.500        | 11074.476     | CADOMIN FM            | CADM    |
| 3382.000        | 11095.801     | NIKANASSIN FM         | NIKA    |

Site ID: 152306      Source ID: 00/03-26-062-07W6/0

Latitude:      54.388132      Well Length:      1775.000  
Longitude:      118.942189  
KB Elevation:      1192.100      Status:      Suspended Well

Well Name:      DOME ET AL CHICKEN 3-26-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1681.000        | 5515.092      | WAPIABI FM   | WPBI |
| 1721.000        | 5646.326      | CHINOOK MBR  | CHNK |
| 1775.000        | 5823.491      | TOTAL DEPTH  | TD   |

Site ID: 96184

Source ID: 00/06-27-062-07W6/0

Latitude: 54.389312

Well Length: 3603.000

Longitude: 118.966591

KB Elevation: 1180.900

Status: Suspended Gaswell

Well Name: DOME KAKWA 6-27-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1640.500        | 5382.218      | WAPIABI FM            | WPBI     |
| 1708.500        | 5605.315      | CHINOOK MBR           | CHNK     |
| 1835.000        | 6020.341      | COLORADO GRP          | COLO     |
| 1925.000        | 6315.617      | BADHEART FM           | BADH     |
| 2023.000        | 6637.139      | CARDIUM FM            | CARD     |
| 2047.500        | 6717.520      | CARDIUM SD            | CARD SD  |
| 2065.000        | 6774.935      | KASKAPAU FM           | KPAU     |
| 2622.500        | 8604.003      | DUNVEGAN FM           | DUNV     |
| 2767.000        | 9078.084      | SHAFTESBURY FM        | SHIFT    |
| 2811.500        | 9224.082      | BASE FISH SCALES ZONE | BFSC     |
| 2905.000        | 9530.840      | PADDY MBR             | PADY     |
| 2918.000        | 9573.491      | CADOTTE MBR           | CDOT     |
| 2939.500        | 9644.029      | HARMON MBR            | HARM     |
| 2952.500        | 9686.680      | NOTIKWIN MBR          | NOTI     |
| 3001.500        | 9847.441      | FALHER A              | FALHER A |
| 3229.500        | 10595.473     | WILRICH MBR           | WILR     |
| 3275.000        | 10744.751     | BLUESKY FM            | BLSK     |
| 3280.000        | 10761.155     | GETHING FM            | GETH     |
| 3398.500        | 11149.935     | CADOMIN FM            | CADM     |
| 3410.000        | 11187.664     | NIKANASSIN FM         | NIKA     |
| 3590.500        | 11779.856     | FERNIE GRP            | FERN     |

Site ID: 96185      Source ID: 00/06-27-062-07W6/2

Latitude: 54.389312      Well Length: 3603.000  
Longitude: 118.966591  
KB Elevation: 1180.900      Status: Suspended Gaswell

Well Name: DOME KAKWA 6-27-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |          |
|-----------------|---------------|-----------------------|----------|
| 1640.500        | 5382.218      | WAPIABI FM            | WPBI     |
| 1708.500        | 5605.315      | CHINOOK MBR           | CHNK     |
| 1835.000        | 6020.341      | COLORADO GRP          | COLO     |
| 1925.000        | 6315.617      | BADHEART FM           | BADH     |
| 2023.000        | 6637.139      | CARDIUM FM            | CARD     |
| 2047.500        | 6717.520      | CARDIUM SD            | CARD SD  |
| 2065.000        | 6774.935      | KASKAPAU FM           | KPAU     |
| 2622.500        | 8604.003      | DUNVEGAN FM           | DUNV     |
| 2767.000        | 9078.084      | SHAFTESBURY FM        | SHFT     |
| 2811.500        | 9224.082      | BASE FISH SCALES ZONE | BFSC     |
| 2905.000        | 9530.840      | PADDY MBR             | PADY     |
| 2918.000        | 9573.491      | CADOTTE MBR           | CDOT     |
| 2939.500        | 9644.029      | HARMON MBR            | HARM     |
| 2952.500        | 9686.680      | NOTIKWIN MBR          | NOTI     |
| 3001.500        | 9847.441      | FALHER A              | FALHER A |
| 3229.500        | 10595.473     | WILRICH MBR           | WILR     |
| 3275.000        | 10744.751     | BLUESKY FM            | BLSK     |
| 3280.000        | 10761.155     | GETHING FM            | GETH     |
| 3398.500        | 11149.935     | CADOMIN FM            | CADM     |
| 3410.000        | 11187.664     | NIKANASSIN FM         | NIKA     |
| 3590.500        | 11779.856     | FERNIE GRP            | FERN     |

Site ID: 96186 Source ID: 00/10-28-062-07W6/0

Latitude: 54.393646 Well Length: 2830.000  
Longitude: 118.982499  
KB Elevation: 1214.600 Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 10-28-62-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name   |         |
|-----------------|---------------|----------------|---------|
| 1691.500        | 5549.541      | WAPIABI FM     | WPBI    |
| 1849.000        | 6066.273      | COLORADO GRP   | COLO    |
| 1937.500        | 6356.627      | BADHEART FM    | BADH    |
| 2001.700        | 6567.257      | CARDIUM FM     | CARD    |
| 2057.000        | 6748.688      | CARDIUM SD     | CARD SD |
| 2070.300        | 6792.323      | KASKAPAU FM    | KPAU    |
| 2642.200        | 8668.636      | DUNVEGAN FM    | DUNV    |
| 2743.000        | 8999.344      | SHAFTESBURY FM | SHFT    |

Site ID: 152307

Source ID: 00/10-33-062-07W6/0

Latitude: 54.409873

Well Length: 1760.000

Longitude: 118.981765

KB Elevation: 1197.000

Status: Pumping Oilwell

Well Name: DOME ET AL CHICKEN 10-33-62-7

Depth  
Meters

Depth  
Feet

Horizon Name

1670.200

5479.659

WAPIABI FM

WPBI

1700.500

5579.068

CHINOOK MBR

CHNK

1760.000

5774.278

TOTAL DEPTH

TD



Site ID: 141115      Source ID: 00/06-17-063-04W6/0

Latitude:      54.447341      Well Length:      1760.000  
Longitude:      118.570557  
KB Elevation:      948.500      Status:      Abandoned Well

Well Name:      DOME ET AL KAKWA 6-17-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1415.000        | 4642.389      | WAPIABI FM   | WPBI    |
| 1450.000        | 4757.218      | CHINOOK MBR  | CHNK    |
| 1533.000        | 5029.528      | COLORADO GRP | COLO    |
| 1627.000        | 5337.927      | BADHEART FM  | BADH    |
| 1644.500        | 5395.341      | MUSKIKI FM   | MSKK    |
| 1699.500        | 5575.788      | CARDIUM FM   | CARD    |
| 1719.500        | 5641.404      | CARDIUM SD   | CARD SD |
| 1738.000        | 5702.100      | KASKAPAU FM  | KPAU    |
| 1760.000        | 5774.278      | TOTAL DEPTH  | TD      |

Site ID: 97335 Source ID: 00/11-19-063-04W6/0

Latitude: 54.468350 Well Length: 2934.000  
Longitude: 118.596949  
KB Elevation: 1006.900 Status: Suspended Well

Well Name: DOME LATOR 11-19-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1383.000        | 4537.402      | CHINOOK MBR           | CHNK    |
| 1561.500        | 5123.032      | COLORADO GRP          | COLO    |
| 1653.000        | 5423.229      | BADHEART FM           | BADH    |
| 1716.500        | 5631.562      | CARDIUM FM            | CARD    |
| 1737.500        | 5700.459      | CARDIUM SD            | CARD SD |
| 1769.000        | 5803.806      | KASKAPAU FM           | KPAU    |
| 2172.000        | 7125.984      | DUNVEGAN FM           | DUNV    |
| 2273.000        | 7457.349      | SHAFTESBURY FM        | SHIFT   |
| 2345.000        | 7693.570      | BASE FISH SCALES ZONE | BFSC    |
| 2423.000        | 7949.475      | PADDY MBR             | PADY    |
| 2432.000        | 7979.003      | CADOTTE MBR           | CDOT    |
| 2460.000        | 8070.866      | HARMON MBR            | HARM    |
| 2476.000        | 8123.360      | SPIRIT RIVER FM       | SPRT R  |
| 2758.000        | 9048.557      | BLUESKY FM            | BLSK    |
| 2776.000        | 9107.612      | GETHING FM            | GETH    |
| 2894.000        | 9494.751      | CADOMIN FM            | CADM    |
| 2898.000        | 9507.874      | NIKANASSIN FM         | NIKA    |

Site ID: 97336      Source ID: 00/12-20-063-04W6/0

Latitude: 54.466913      Well Length: 1764.800  
Longitude: 118.575342  
KB Elevation: 976.900      Status: Suspended Well

Well Name: B.A. MUSREAU LAKE 12-20-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1414.300        | 4640.092      | WAPIABI FM   | WPBI    |
| 1541.100        | 5056.103      | COLORADO GRP | COLO    |
| 1634.600        | 5362.861      | BADHEART FM  | BADH    |
| 1696.200        | 5564.960      | CARDIUM FM   | CARD    |
| 1724.600        | 5658.137      | CARDIUM SD   | CARD SD |

Site ID: 97337 Source ID: 00/13-22-063-04W6/0

Latitude: 54.469073 Well Length: 2885.000  
Longitude: 118.522279  
KB Elevation: 910.900 Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 13-22-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1341.500        | 4401.247      | WAPIABI FM            | WPBI    |
| 1415.000        | 4642.389      | COLORADO GRP          | COLO    |
| 1560.000        | 5118.110      | BADHEART FM           | BADH    |
| 1623.000        | 5324.803      | CARDIUM FM            | CARD    |
| 1647.000        | 5403.543      | CARDIUM SD            | CARD SD |
| 1666.000        | 5465.879      | KASKAPAU FM           | KPAU    |
| 2027.300        | 6651.247      | DUNVEGAN FM           | DUNV    |
| 2166.000        | 7106.299      | SHAFTESBURY FM        | SHFT    |
| 2225.000        | 7299.869      | BASE FISH SCALES ZONE | BFSC    |
| 2303.000        | 7555.774      | PADDY MBR             | PADY    |
| 2313.500        | 7590.223      | CADOTTE MBR           | CDOT    |
| 2340.000        | 7677.166      | HARMON MBR            | HARM    |
| 2348.000        | 7703.412      | SPIRIT RIVER FM       | SPRT R  |
| 2435.500        | 7990.486      | FALHER MBR            | FALH    |
| 2633.000        | 8638.452      | BLUESKY FM            | BLSK    |
| 2650.000        | 8694.226      | GETHING FM            | GETH    |
| 2762.800        | 9064.305      | CADOMIN FM            | CADM    |
| 2772.000        | 9094.488      | NIKANASSIN FM         | NIKA    |
| 2832.000        | 9291.339      | FERNIE GRP            | FERN    |

Site ID: 162767

Source ID: 00/13-22-063-04W6/2

Latitude: 54.469073

Well Length: 2885.000

Longitude: 118.522279

KB Elevation: 910.900

Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 13-22-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1341.500        | 4401.247      | WAPIABI FM            | WPBI    |
| 1415.000        | 4642.389      | COLORADO GRP          | COLO    |
| 1560.000        | 5118.110      | BADHEART FM           | BADH    |
| 1623.000        | 5324.803      | CARDIUM FM            | CARD    |
| 1647.000        | 5403.543      | CARDIUM SD            | CARD SD |
| 1666.000        | 5465.879      | KASKAPAU FM           | KPAU    |
| 2027.300        | 6651.247      | DUNVEGAN FM           | DUNV    |
| 2166.000        | 7106.299      | SHAFESBURY FM         | SHFT    |
| 2225.000        | 7299.869      | BASE FISH SCALES ZONE | BFSC    |
| 2303.000        | 7555.774      | PADDY MBR             | PADY    |
| 2313.500        | 7590.223      | CADOTTE MBR           | CDOT    |
| 2340.000        | 7677.166      | HARMON MBR            | HARM    |
| 2348.000        | 7703.412      | SPIRIT RIVER FM       | SPRT R  |
| 2435.500        | 7990.486      | FALHER MBR            | FALH    |
| 2633.000        | 8638.452      | BLUESKY FM            | BLSK    |
| 2650.000        | 8694.226      | GETHING FM            | GETH    |
| 2762.800        | 9064.305      | CADOMIN FM            | CADM    |
| 2772.000        | 9094.488      | NIKANASSIN FM         | NIKA    |
| 2832.000        | 9291.339      | FERNIE GRP            | FERN    |

Site ID: 97338      Source ID: 00/02-30-063-04W6/0

Latitude: 54.474363      Well Length: 2251.300  
Longitude: 118.588892  
KB Elevation: 1001.600      Status: Pumping Oilwell

Well Name: B.A. MUSREAU LAKE 2-30

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1441.700        | 4729.987      | WAPIABI FM            | WPBI    |
| 1453.900        | 4770.013      | CHINOOK MBR           | CHNK    |
| 1556.000        | 5104.987      | COLORADO GRP          | COLO    |
| 1647.100        | 5403.872      | BADHEART FM           | BADH    |
| 1708.400        | 5604.987      | CARDIUM FM            | CARD    |
| 1738.000        | 5702.100      | CARDIUM SD            | CARD SD |
| 1783.100        | 5850.066      | KASKAPAU FM           | KPAU    |
| 2160.400        | 7087.926      | DUNVEGAN FM           | DUNV    |
| 2209.800        | 7250.000      | BASE FISH SCALES ZONE | BFSC    |

Site ID: 97339

Source ID: 00/07-34-063-04W6/0

Latitude: 54.492429

Well Length: 4485.100

Longitude: 118.512501

KB Elevation: 949.500

Status: Abandoned Well

Well Name: PAN AM ET AL A-1 KAKWA 7-34-63-4

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1360.000        | 4461.942      | WAPIABI FM            | WPBI    |
| 1371.600        | 4500.000      | CHINOOK MBR           | CHNK    |
| 1468.800        | 4818.898      | COLORADO GRP          | COLO    |
| 1555.700        | 5104.002      | BADHEART FM           | BADH    |
| 1619.700        | 5313.977      | CARDIUM FM            | CARD    |
| 1646.500        | 5401.903      | CARDIUM SD            | CARD SD |
| 1677.600        | 5503.937      | BLACKSTONE FM         | BKST    |
| 2058.000        | 6751.969      | DUNVEGAN FM           | DUNV    |
| 2221.700        | 7289.042      | BASE FISH SCALES ZONE | BFSC    |
| 2300.000        | 7545.932      | PEACE RIVER FM        | PR      |
| 2318.300        | 7605.972      | CADOTTE MBR           | CDOT    |
| 2330.800        | 7646.982      | HARMON MBR            | HARM    |
| 2348.800        | 7706.037      | SPIRIT RIVER FM       | SPRT R  |
| 2629.200        | 8625.984      | GETHING FM            | GETH    |
| 2761.800        | 9061.024      | CADOMIN FM            | CADM    |
| 2773.700        | 9100.065      | NIKANASSIN FM         | NIKA    |
| 2858.400        | 9377.953      | FERNIE GRP            | FERN    |
| 2907.200        | 9538.058      | NORDEGG MBR           | NORD    |
| 2928.800        | 9608.925      | DAIBER GRP            | DAIB    |
| 3192.500        | 10474.082     | BELLOV FM             | BELL    |
| 3219.300        | 10562.009     | DEBOLT FM             | DBLT    |
| 3354.900        | 11006.890     | SHUNDA FM             | SHUN    |
| 3508.200        | 11509.843     | PEKSKO FM             | PEK     |
| 3562.500        | 11687.992     | BANFF FM              | BNFF    |
| 3758.500        | 12331.037     | EXSHAW FM             | EX      |
| 3759.400        | 12333.989     | WABAMUN GRP           | WAB     |
| 3990.400        | 13091.863     | WINTERBURN GRP        | WINT    |
| 4094.100        | 13432.087     | WOODBEND GRP          | WOOD    |
| 4393.100        | 14413.059     | BEAVERHILL LAKE FM    | BH LK   |
| 4467.500        | 14657.152     | ELK POINT GRP         | ELPT    |
| 4472.600        | 14673.886     | GILWOOD MBR           | GLWD    |

Site ID: 97340

Source ID: 00/06-01-063-05W6/0

Latitude: 54.418473

Well Length: 3038.000

Longitude: 118.621715

KB Elevation: 939.900

Status: Suspended well

Well Name: DOME ET AL KAKWA 6-1-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1432.600        | 4700.131      | WAPIABI FM            | WPBI    |
| 1552.000        | 5091.864      | COLORADO GRP          | COLO    |
| 1641.600        | 5385.827      | BADHEART FM           | BADH    |
| 1726.500        | 5664.370      | CARDIUM FM            | CARD    |
| 1742.000        | 5715.223      | CARDIUM SD            | CARD SD |
| 1762.000        | 5780.840      | KASKAPAU FM           | KPAU    |
| 2210.000        | 7250.656      | DUNVEGAN FM           | DUNV    |
| 2299.000        | 7542.651      | SHAFTESBURY FM        | SHIFT   |
| 2370.000        | 7775.591      | BASE FISH SCALES ZONE | BFSC    |
| 2461.000        | 8074.147      | PADDY MBR             | PADY    |
| 2469.000        | 8100.394      | CADOTTE MBR           | CDOT    |
| 2483.000        | 8146.326      | HARMON MBR            | HARM    |
| 2515.000        | 8251.313      | SPIRIT RIVER FM       | SPRT R  |
| 2791.000        | 9156.824      | BLUESKY FM            | BLSK    |
| 2805.000        | 9202.756      | GETHING FM            | GETH    |
| 2918.000        | 9573.491      | CADOMIN FM            | CADM    |
| 2929.000        | 9609.580      | NIKANASSIN FM         | NIKA    |



Site ID: 97341

Source ID: 00/03-03-063-05W6/0

Latitude: 54.417350

Well Length: 1894.000

Longitude: 118.671620

KB Elevation: 1026.700

Status: Suspended Gaswell

Well Name: UNION ET AL MUSREAU 3-3-63-5

Depth  
Meters

Depth  
Feet

Horizon Name

1525.500

5004.921

WAPIABI FM

WPBI

1661.000

5449.475

COLORADO GRP

COLO

1750.000

5741.470

BADHEART FM

BADH

1824.000

5984.252

CARDIUM FM

CARD

1856.200

6089.895

CARDIUM SD

CARD SD

1873.500

6146.654

KASKAPAU FM

KPAU

Site ID: 97342      Source ID: 00/05-04-063-05W6/0

Latitude: 54.418785      Well Length: 1910.000  
Longitude: 118.699554  
KB Elevation: 1044.900      Status: Flowing Oilwell

Well Name: UNION ET AL MUSREAU 5-4-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 154.000         | 505.249       | WAPIABI FM   | WPBI    |
| 1677.700        | 5504.265      | COLORADO GRP | COLO    |
| 1768.600        | 5802.494      | BADHEART FM  | BADH    |
| 1839.500        | 6035.105      | CARDIUM FM   | CARD    |
| 1875.000        | 6151.575      | CARDIUM SD   | CARD SD |
| 1886.000        | 6187.664      | KASKAPAU FM  | KPAU    |

Site ID: 97343

Source ID: 00/16-04-063-05W6/0

Latitude: 54.425754

Well Length: 1840.000

Longitude: 118.685052

KB Elevation: 988.900

Status: Flowing Oilwell

Well Name: UNION ET AL KAKWA 16-4-63-5

Depth  
Meters

Depth  
Feet

Horizon Name

1466.500

4811.352

WAPIABI FM

WPBI

1564.000

5131.234

COLORADO GRP

COLO

1704.000

5590.551

BADHEART FM

BADH

1777.000

5830.053

CARDIUM FM

CARD

1809.000

5935.040

CARDIUM SD

CARD SD

1824.500

5985.893

KASKAPAU FM

KPAU

1840.000

6036.746

TOTAL DEPTH

TD

Site ID: 141116      Source ID: 00/11-05-063-05W6/0

Latitude:      54.425058      Well Length:      1924.000  
Longitude:      118.721934  
KB Elevation:      1063.000      Status:      Flowing Oilwell

Well Name:      UNION ET AL KAKWA 11-5-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1546.300        | 5073.163      | WAPIABI FM   | WPBI    |
| 1593.500        | 5228.019      | CHINOOK MBR  | CHNK    |
| 1686.000        | 5531.496      | COLORADO GRP | COLO    |
| 1778.000        | 5833.333      | BADHEART FM  | BADH    |
| 1802.000        | 5912.074      | MUSIKI FM    | MSKK    |
| 1844.000        | 6049.869      | CARDIUM FM   | CARD    |
| 1875.000        | 6151.575      | CARDIUM SD   | CARD SD |
| 1897.500        | 6225.394      | KASKAPAU FM  | KPAU    |
| 1924.000        | 6312.336      | TOTAL DEPTH  | TD      |

Site ID: 152353      Source ID: 00/14-05-063-05W6/0

Latitude:      54.425275      Well Length:      1910.000

Longitude:      118.722297

KB Elevation:      1062.800      Status:      Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 14-5-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1543.800        | 5064.961      | WAPIABI FM   | WPBI |
| 1592.000        | 5223.097      | CHINOOK MBR  | CHNK |
| 1684.000        | 5524.935      | COLORADO GRP | COLO |
| 1775.400        | 5824.803      | BADHEART FM  | BADH |
| 1800.000        | 5905.512      | MUSKIKI FM   | MSKK |
| 1845.500        | 6054.790      | CARDIUM FM   | CARD |

Site ID: 97344      Source ID: 00/11-06-063-05W6/0

Latitude:      54.424549      Well Length:      1889.000  
Longitude:      118.747794  
KB Elevation:      1032.600      Status:      Flowing Gaswell

Well Name:      UNION ESSO MUSREAU 11-6-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1505.200        | 4938.320      | WAPIABI FM   | WPBI    |
| 1656.000        | 5433.071      | COLORADO GRP | COLO    |
| 1745.800        | 5727.690      | BADHEART FM  | BADH    |
| 1818.500        | 5966.208      | CARDIUM FM   | CARD    |
| 1855.900        | 6088.911      | CARDIUM SD   | CARD SD |
| 1866.800        | 6124.672      | KASKAPAU FM  | KPAU    |

Site ID: 97345      Source ID: 00/11-06-063-05W6/2

Latitude: 54.424549      Well Length: 1889.000  
Longitude: 118.747794  
KB Elevation: 1032.600      Status: Flowing Gaswell

Well Name: UNION ESSO MUSREAU 11-6-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1505.200        | 4938.320      | WAPIABI FM   | WPBI    |
| 1656.000        | 5433.071      | COLORADO GRP | COLO    |
| 1745.800        | 5727.690      | BADHEART FM  | BADH    |
| 1818.500        | 5966.208      | CARDIUM FM   | CARD    |
| 1855.900        | 6088.911      | CARDIUM SD   | CARD SD |
| 1866.800        | 6124.672      | KASKAPAU FM  | KPAU    |

Site ID: 97346      Source ID: 00/11-07-063-05W6/0

Latitude: 54.439077      Well Length: 1904.500  
Longitude: 118.747247  
KB Elevation: 1066.200      Status: Suspended Oilwell

Well Name: UNION ESSO MUSREAU 11-7-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1538.500        | 5047.572      | WAPIABI FM   | WPBI    |
| 1670.400        | 5480.315      | COLORADO GRP | COLO    |
| 1759.900        | 5773.950      | BADHEART FM  | BADH    |
| 1836.800        | 6026.247      | CARDIUM FM   | CARD    |
| 1865.600        | 6120.735      | CARDIUM SD   | CARD SD |
| 1875.600        | 6153.543      | KASKAPAU FM  | KPAU    |



Site ID: 97347

Source ID: 00/11-07-063-05W6/2

Latitude: 54.439077

Well Length: 1904.500

Longitude: 118.747247

KB Elevation: 1066.200

Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 11-7-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1538.500        | 5047.572      | WAPIABI FM   | WPBI    |
| 1670.400        | 5480.315      | COLORADO GRP | COLO    |
| 1759.900        | 5773.950      | BADHEART FM  | BADH    |
| 1836.800        | 6026.247      | CARDIUM FM   | CARD    |
| 1865.600        | 6120.735      | CARDIUM SD   | CARD SD |
| 1875.600        | 6153.543      | KASKAPAU FM  | KPAU    |

Site ID: 152354      Source ID: 00/06-08-063-05W6/0

Latitude:      54.433743      Well Length:      1905.000  
Longitude:      118.722797  
KB Elevation:      1062.400      Status:      Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 6-8-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1538.000        | 5045.932      | WAPIABI FM   | WPBI    |
| 1587.000        | 5206.693      | CHINOOK MBR  | CHNK    |
| 1678.000        | 5505.250      | COLORADO GRP | COLO    |
| 1769.500        | 5805.446      | BADHEART FM  | BADH    |
| 1794.000        | 5885.827      | MUSKIKI FM   | MSKK    |
| 1836.000        | 6023.622      | CARDIUM FM   | CARD    |
| 1867.500        | 6126.969      | CARDIUM SD   | CARD SD |
| 1885.000        | 6184.383      | KASKAPAU FM  | KPAU    |
| 1905.000        | 6250.000      | TOTAL DEPTH  | TD      |

Site ID: 97348

Source ID: 00/11-08-063-05W6/0

Latitude: 54.439033

Well Length: 1892.000

Longitude: 118.722858

KB Elevation: 1048.800

Status: Suspended Gaswell

Well Name: UNION ET AL KAKWA 11-8-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1501.000        | 4924.541      | WAPIABI FM   | WPBI    |
| 1610.000        | 5282.152      | COLORADO GRP | COLO    |
| 1755.000        | 5757.874      | BADHEART FM  | BADH    |
| 1824.500        | 5985.893      | CARDIUM FM   | CARD    |
| 1853.000        | 6079.396      | CARDIUM SD   | CARD SD |
| 1876.500        | 6156.496      | KASKAPAU FM  | KPAU    |
| 1892.000        | 6207.349      | TOTAL DEPTH  | TD      |

Site ID: 97349

Source ID: 00/11-09-063-05W6/0

Latitude: 54.438760

Well Length: 1897.000

Longitude: 118.696838

KB Elevation: 1040.500

Status: Suspended Well

Well Name: ESSO UNION MUSREAU 11-9C-63-5

Depth  
Meters

Depth  
Feet

Horizon Name

1747.500

5733.268

BADHEART FM

BADH

1823.400

5982.284

CARDIUM FM

CARD

1850.000

6069.554

CARDIUM SD

CARD SD

Site ID: 97350      Source ID: 00/11-09-063-05W6/2

Latitude:      54.438760      Well Length:      1897.000  
Longitude:      118.696838  
KB Elevation:      1040.500      Status:      Flowing Oilwell

Well Name:      ESSO UNION MUSREAU 11-9C-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1747.500        | 5733.268      | BADHEART FM  | BADH    |
| 1823.400        | 5982.284      | CARDIUM FM   | CARD    |
| 1850.000        | 6069.554      | CARDIUM SD   | CARD SD |

Site ID: 97351

Source ID: 00/07-10-063-05W6/0

Latitude: 54.433341

Well Length: 1820.000

Longitude: 118.662223

KB Elevation: 947.000

Status: Abandoned Well

Well Name: MOBIL ET AL MUSREAU 7-10-63-5

Depth  
Meters

Depth  
Feet

Horizon Name

1432.400

4699.475

WAPIABI FM

WPBI

1443.000

4734.252

CHINOOK MBR

CHNK

1556.300

5105.972

COLORADO GRP

COLO

1648.000

5406.824

BADHEART FM

BADH

1723.000

5652.887

CARDIUM FM

CARD

1750.200

5742.126

CARDIUM SD

CARD SD

1766.500

5795.604

KASKAPAU FM

KPAU

Site ID: 97352      Source ID: 00/02-16-063-05W6/0

Latitude: 54.446476      Well Length: 1836.000  
Longitude: 118.686985  
KB Elevation: 1005.600      Status: Flowing Oilwell

Well Name: UNION ESSO KAKWA 2-16-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1462.000        | 4796.588      | WAPIABI FM   | WPBI    |
| 1598.000        | 5242.782      | COLORADO GRP | COLO    |
| 1688.500        | 5539.698      | BADHEART FM  | BADH    |
| 1764.000        | 5787.402      | CARDIUM FM   | CARD    |
| 1792.000        | 5879.265      | CARDIUM SD   | CARD SD |
| 1804.000        | 5918.635      | KASKAPAU FM  | KPAU    |

Site ID: 141117

Source ID: 00/08-17-063-05W6/0

Latitude: 54.447513

Well Length: 1831.000

Longitude: 118.709912

KB Elevation: 1003.400

Status: Abandoned Well

Well Name: UNOCAL ET AL KAKWA 8-17-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1535.000        | 5036.089      | WAPIABI FM   | WPBI    |
| 1611.000        | 5285.433      | CHINOOK MBR  | CHNK    |
| 1701.500        | 5582.349      | BADHEART FM  | BADH    |
| 1728.000        | 5669.292      | MUSKIKI FM   | MSKK    |
| 1773.500        | 5818.570      | CARDIUM FM   | CARD    |
| 1801.500        | 5910.433      | CARDIUM SD   | CARD SD |
| 1831.000        | 6007.218      | TOTAL DEPTH  | TD      |



Site ID: 97353

Source ID: 00/12-17-063-05W6/0

Latitude: 54.453885

Well Length: 1898.000

Longitude: 118.725008

KB Elevation: 1074.000

Status: Flowing Oilwell

Well Name: UNION ET AL KAKWA 12-17-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1497.500        | 4913.058      | WAPIABI FM   | WPBI    |
| 1619.500        | 5313.320      | COLORADO GRP | COLO    |
| 1764.000        | 5787.402      | BADHEART FM  | BADH    |
| 1833.000        | 6013.780      | CARDIUM FM   | CARD    |
| 1864.000        | 6115.486      | CARDIUM SD   | CARD SD |
| 1885.700        | 6186.680      | KASKAPAU FM  | KPAU    |
| 1898.000        | 6227.034      | TOTAL DEPTH  | TD      |

Site ID: 97354      Source ID: 02/12-17-063-05W6/0

Latitude:      54.453770      Well Length:      1900.000  
Longitude:      118.724871  
KB Elevation:      1073.800      Status:      Flowing Oilwell

Well Name:      UNION ESSO KAKWA A12-17-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1499.000        | 4917.979      | WAPIABI FM   | WPBI    |
| 1620.000        | 5314.961      | COLORADO GRP | COLO    |
| 1764.000        | 5787.402      | BADHEART FM  | BADH    |
| 1833.000        | 6013.780      | CARDIUM FM   | CARD    |
| 1863.800        | 6114.830      | CARDIUM SD   | CARD SD |
| 1885.500        | 6186.024      | KASKAPAU FM  | KPAU    |
| 1900.000        | 6233.596      | TOTAL DEPTH  | TD      |

Site ID: 141118      Source ID: 00/02-18-063-05W6/0

Latitude:      54.446829      Well Length:      1904.000  
Longitude:      118.737742  
KB Elevation:      1067.200      Status:      Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 2-18-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1549.500        | 5083.662      | WAPIABI FM   | WPBI    |
| 1583.500        | 5195.210      | CHINOOK MBR  | CHNK    |
| 1675.000        | 5495.407      | COLORADO GRP | COLO    |
| 1767.500        | 5798.885      | BADHEART FM  | BADH    |
| 1784.000        | 5853.019      | MUSKIKI FM   | MSKK    |
| 1835.000        | 6020.341      | CARDIUM FM   | CARD    |
| 1871.000        | 6138.452      | CARDIUM SD   | CARD SD |
| 1886.500        | 6189.305      | KASKAPAU FM  | KPAU    |
| 1904.000        | 6246.719      | TOTAL DEPTH  | TD      |

Site ID: 97355      Source ID: 00/10-18-063-05W6/0

Latitude: 54.453559      Well Length: 1905.000  
Longitude: 118.737554  
KB Elevation: 1073.900      Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 10-18-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1549.000        | 5082.021      | WAPIABI FM   | WPBI    |
| 1671.200        | 5482.939      | COLORADO GRP | COLO    |
| 1762.500        | 5782.480      | BADHEART FM  | BADH    |
| 1830.500        | 6005.578      | CARDIUM FM   | CARD    |
| 1862.000        | 6108.924      | CARDIUM SD   | CARD SD |
| 1879.800        | 6167.323      | KASKAPAU FM  | KPAU    |

Site ID: 97356      Source ID: 00/10-18-063-05W6/2

Latitude: 54.453559      Well Length: 1905.000  
Longitude: 118.737554  
KB Elevation: 1073.900      Status: Suspended Oilwell

Well Name: UNION ESSO MUSREAU 10-18-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1549.000        | 5082.021      | WAPIABI FM   | WPBI    |
| 1671.200        | 5482.939      | COLORADO GRP | COLO    |
| 1762.500        | 5782.480      | BADHEART FM  | BADH    |
| 1830.500        | 6005.578      | CARDIUM FM   | CARD    |
| 1862.000        | 6108.924      | CARDIUM SD   | CARD SD |
| 1879.800        | 6167.323      | KASKAPAU FM  | KPAU    |

Site ID: 97357

Source ID: 00/16-19-063-05W6/0

Latitude: 54.468986

Well Length: 1830.000

Longitude: 118.734574

KB Elevation: 1006.900

Status: Flowing Oilwell

Well Name: DOME ET AL KAKWA 16-19-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1456.000        | 4776.903      | WAPIABI FM   | WPBI    |
| 1587.500        | 5208.333      | COLORADO GRP | COLO    |
| 1678.500        | 5506.890      | BADHEART FM  | BADH    |
| 1750.500        | 5743.110      | CARDIUM FM   | CARD    |
| 1777.400        | 5831.365      | CARDIUM SD   | CARD SD |
| 1791.000        | 5875.984      | KASKAPAU FM  | KPAU    |

Site ID: 97358      Source ID: 00/02-20-063-05W6/0

Latitude: 54.461075      Well Length: 1820.000  
Longitude: 118.711859  
KB Elevation: 1011.900      Status: Capped Gaswell

Well Name: UNION ESSO KAKWA 2-20-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1472.000        | 4829.396      | WAPIABI FM   | WPBI    |
| 1592.000        | 5223.097      | COLORADO GRP | COLO    |
| 1678.000        | 5505.250      | BADHEART FM  | BADH    |
| 1752.700        | 5750.328      | CARDIUM FM   | CARD    |
| 1779.000        | 5836.614      | CARDIUM SD   | CARD SD |
| 1797.000        | 5895.669      | KASKAPAU FM  | KPAU    |

Site ID: 97359      Source ID: 00/10-20-063-05W6/0

Latitude: 54.467767      Well Length: 1816.000  
Longitude: 118.712660  
KB Elevation: 1004.800      Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 10-20-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1462.500        | 4798.229      | WAPIABI FM   | WPBI    |
| 1582.000        | 5190.289      | COLORADO GRP | COLO    |
| 1669.500        | 5477.362      | BADHEART FM  | BADH    |
| 1755.000        | 5757.874      | CARDIUM FM   | CARD    |
| 1770.500        | 5808.727      | CARDIUM SD   | CARD SD |
| 1781.500        | 5844.816      | KASKAPAU FM  | KPAU    |



Site ID: 97360

Source ID: 00/10-21-063-05W6/0

Latitude: 54.468353

Well Length: 1840.000

Longitude: 118.686537

KB Elevation: 1032.500

Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 10-21-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1481.000        | 4858.924      | WAPIABI FM   | WPBI    |
| 1612.200        | 5289.370      | COLORADO GRP | COLO    |
| 1700.000        | 5577.428      | BADHEART FM  | BADH    |
| 1772.500        | 5815.289      | CARDIUM FM   | CARD    |
| 1800.000        | 5905.512      | CARDIUM SD   | CARD SD |
| 1814.700        | 5953.740      | KASKAPAU FM  | KPAU    |

Site ID: 97361

Source ID: 00/06-24-063-05W6/0

Latitude: 54.461653

Well Length: 3500.000

Longitude: 118.620787

KB Elevation: 1011.000

Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 6-24-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1463.000        | 4799.869      | WAPIABI FM            | WPBI    |
| 1580.500        | 5185.368      | COLORADO GRP          | COLO    |
| 1674.500        | 5493.767      | BADHEART FM           | BADH    |
| 1737.000        | 5698.819      | CARDIUM FM            | CARD    |
| 1763.000        | 5784.121      | CARDIUM SD            | CARD SD |
| 1781.000        | 5843.176      | KASKAPAU FM           | KPAU    |
| 2198.000        | 7211.286      | DUNVEGAN FM           | DUNV    |
| 2289.000        | 7509.843      | SHAFTESBURY FM        | SHIFT   |
| 2370.000        | 7775.591      | BASE FISH SCALES ZONE | BFSC    |
| 2451.000        | 8041.339      | PADDY MBR             | PADY    |
| 2460.000        | 8070.866      | CADOTTE MBR           | CDOT    |
| 2494.000        | 8182.415      | HARMON MBR            | HARM    |
| 2508.000        | 8228.347      | SPIRIT RIVER FM       | SPRT R  |
| 2565.000        | 8415.354      | FALHER MBR            | FALH    |
| 2791.000        | 9156.824      | BLUESKY FM            | BLSK    |
| 2805.000        | 9202.756      | GETHING FM            | GETH    |
| 2919.000        | 9576.771      | CADOMIN FM            | CADM    |
| 2930.700        | 9615.157      | NIKANASSIN FM         | NIKA    |
| 3015.000        | 9891.732      | FERNIE GRP            | FERN    |
| 3086.900        | 10127.625     | NORDEGG MBR           | NORD    |
| 3109.500        | 10201.772     | CHARLIE LAKE FM       | CH LK   |
| 3180.000        | 10433.071     | MONTNEY FM            | MONT    |
| 3390.000        | 11122.048     | BELLOV FM             | BELL    |
| 3431.800        | 11259.187     | DEBOLT FM             | DBLT    |

Site ID: 97362      Source ID: 00/09-28-063-05W6/0

Latitude: 54.482495      Well Length: 1780.000  
Longitude: 118.685570  
KB Elevation: 985.900      Status: Suspended Well

Well Name: DOME ET AL KAKWA 9-28-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1427.000        | 4681.759      | WAPIABI FM   | WPBI    |
| 1550.000        | 5085.302      | COLORADO GRP | CCLO    |
| 1634.800        | 5363.518      | BADHEART FM  | BADH    |
| 1704.700        | 5592.848      | CARDIUM FM   | CARD    |
| 1729.700        | 5674.869      | CARDIUM SD   | CARD SD |
| 1742.100        | 5715.551      | KASKAPAU FM  | KPAU    |

Site ID: 97363

Source ID: 00/06-29-063-05W6/0

Latitude: 54.477123

Well Length: 1798.000

Longitude: 118.722401

KB Elevation: 982.800

Status: Suspended Well

Well Name: DOME ET AL KAKWA 6-29-63-5

Depth  
Meters

Depth  
Feet

Horizon Name

1424.600

4673.885

WAPIABI FM

WPBI

1546.000

5072.179

COLORADO GRP

COLO

1632.000

5354.331

BADHEART FM

BADH

1707.500

5602.034

CARDIUM FM

CARD

1733.600

5687.664

CARDIUM SD

CARD SD

1753.200

5751.969

KASKAPAU FM

KPAU

Site ID: 97364

Source ID: 00/06-30-063-05W6/0

Latitude: 54.477036

Well Length: 3594.000

Longitude: 118.747214

KB Elevation: 1039.900

Status: Flowing Oilwell

Well Name: DOME ET AL KAKWA 6-30-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1487.000        | 4878.609      | WAPIABI FM            | WPBI    |
| 1605.000        | 5265.748      | COLORADO GRP          | COLO    |
| 1694.400        | 5559.055      | BADHEART FM           | BADH    |
| 1766.500        | 5795.604      | CARDIUM FM            | CARD    |
| 1791.600        | 5877.953      | CARDIUM SD            | CARD SD |
| 1811.600        | 5943.570      | KASKAPAU FM           | KPAU    |
| 2258.000        | 7408.137      | DUNVEGAN FM           | DUNV    |
| 2298.400        | 7540.682      | SHAFTESBURY FM        | SHIFT   |
| 2429.200        | 7969.816      | BASE FISH SCALES ZONE | BFSC    |
| 2518.000        | 8261.155      | PADDY MBR             | PADY    |
| 2531.000        | 8303.806      | CADOTTE MBR           | CDOT    |
| 2551.000        | 8369.423      | HARMON MBR            | HARM    |
| 2577.500        | 8456.365      | SPIRIT RIVER FM       | SPRT R  |
| 2630.300        | 8629.594      | FALHER MBR            | FALH    |
| 2874.300        | 9430.118      | BLUESKY FM            | BLSK    |
| 2886.000        | 9468.504      | GETHING FM            | GETH    |
| 3009.000        | 9872.048      | NIKANASSIN FM         | NIKA    |
| 3111.200        | 10207.350     | FERNIE GRP            | FERN    |
| 3190.200        | 10466.535     | NORDEGG MBR           | NORD    |
| 3221.800        | 10570.211     | CHARLIE LAKE FM       | CH LK   |
| 3266.000        | 10715.224     | HALFWAY FM            | HWY     |
| 3272.000        | 10734.908     | DOIG FM               | DOIG    |
| 3308.000        | 10853.019     | MONTNEY FM            | MONT    |
| 3510.000        | 11515.748     | BELLOV FM             | BELO    |
| 3565.000        | 11696.194     | DEBOLT FM             | DELT    |

Site ID: 97365

Source ID: 00/04-31-063-05W6/0

Latitude: 54.490307

Well Length: 1785.000

Longitude: 118.749001

KB Elevation: 988.600

Status: Capped Gaswell

Well Name: DOME ET AL KAKWA 4-31-63-5

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1419.000        | 4655.512      | WAPIABI FM   | WPBI    |
| 1547.500        | 5077.100      | COLORADO GRP | COLO    |
| 1632.300        | 5355.315      | BADHEART FM  | BADH    |
| 1704.800        | 5593.176      | CARDIUM FM   | CARD    |
| 1730.500        | 5677.494      | CARDIUM SD   | CARD SD |
| 1749.400        | 5739.501      | KASKAPAU FM  | KPAU    |

Site ID: 146730

Source ID: 00/12-01-063-06W6/0

Latitude: 54.424675

Well Length: 1836.000

Longitude: 118.774276

KB Elevation: 977.600

Status: Flowing Oilwell

Well Name: UNOCAL ESSO KAKWA 12-1-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1453.000        | 4767.061      | WAPIABI FM   | WPBI    |
| 1509.000        | 4950.788      | CHINOOK MBR  | CHNK    |
| 1608.500        | 5277.231      | COLORADO GRP | COLO    |
| 1701.000        | 5580.709      | BADHEART FM  | BADH    |
| 1727.000        | 5666.011      | MUSKIKI FM   | MSKK    |
| 1770.000        | 5807.087      | CARDIUM FM   | CARD    |
| 1806.000        | 5925.197      | CARDIUM SD   | CARD SD |
| 1822.000        | 5977.690      | KASKAPAU FM  | KPAU    |
| 1836.000        | 6023.622      | TOTAL DEPTH  | TD      |

Site ID: 152355      Source ID: 00/12-01-063-06W6/2

Latitude:      54.424675      Well Length:      1836.000  
Longitude:      118.774276  
KB Elevation:      977.600      Status:      Flowing Oilwell

Well Name:      UNOCAL ESSO KAKWA 12-1-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1453.000        | 4767.061      | WAPIABI FM   | WPBI    |
| 1509.000        | 4950.788      | CHINOOK MBR  | CHNK    |
| 1608.500        | 5277.231      | COLOPADO GRP | COLO    |
| 1701.000        | 5580.709      | BADHEART FM  | BADH    |
| 1727.000        | 5666.011      | MUSKIKI FM   | MSKK    |
| 1770.000        | 5807.087      | CARDIUM FM   | CARD    |
| 1806.000        | 5925.197      | CARDIUM SD   | CARD SD |
| 1822.000        | 5977.690      | KASKAPAU FM  | KPAU    |
| 1836.000        | 6023.622      | TOTAL DEPTH  | TD      |



Site ID: 97366      Source ID: 00/03-04-063-06W6/0

Latitude: 54.417682      Well Length: 3284.000  
Longitude: 118.847522  
KB Elevation: 1132.500      Status: Capped Gaswell

Well Name: DOME KAKWA 3-4-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1041.500        | 5385.499      | WAPIABI FM            | WPBI    |
| 1665.000        | 5462.599      | CHINOOK MBR           | CHNK    |
| 1874.000        | 6148.294      | BADHEART FM           | BADH    |
| 1937.500        | 6356.627      | CARDIUM FM            | CARD    |
| 1970.600        | 6465.223      | CARDIUM SD            | CARD SD |
| 2000.000        | 6561.680      | KASKAPAU FM           | KPAU    |
| 2491.000        | 8172.572      | DUNVEGAN FM           | DUNV    |
| 2584.000        | 8477.690      | SHAFTESBURY FM        | SHIFT   |
| 2667.000        | 8750.000      | BASE FISH SCALES ZONE | BFSC    |
| 2756.000        | 9041.995      | PADDY MBR             | PADY    |
| 2775.000        | 9104.331      | CADOTTE MBR           | CDOT    |
| 2802.000        | 9192.914      | HARMON MBR            | HARM    |
| 2825.000        | 9268.373      | SPIRIT RIVER FM       | SPRT R  |
| 3118.000        | 10229.659     | BLUESKY FM            | BLSK    |
| 3135.000        | 10285.434     | GETHING FM            | GETH    |
| 3243.000        | 10639.764     | CADOMIN FM            | CADM    |
| 3256.000        | 10682.415     | NIKANASSIN FM         | NIKA    |

Site ID: 97367

Source ID: 00/06-07-063-06W6/0

Latitude: 54.432440

Well Length: 3413.000

Longitude: 118.899657

KB Elevation: 1116.500

Status: Capped Gaswell

Well Name: UNION ESSO KAKWA 6-7-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1557.000        | 5108.268      | WAPIABI FM            | WPBI    |
| 1625.000        | 5331.365      | CHINOOK MBR           | CHNK    |
| 1733.500        | 5687.336      | COLORADO GRP          | COLO    |
| 1826.500        | 5992.454      | BADHEART FM           | BADH    |
| 1901.500        | 6238.517      | CARDIUM FM            | CARD    |
| 1934.000        | 6345.145      | CARDIUM SD            | CARD SD |
| 1947.500        | 6389.436      | KASKAPAU FM           | KPAU    |
| 2474.000        | 8116.798      | DUNVEGAN FM           | DUNV    |
| 2571.500        | 8436.680      | SHAFTESBURY FM        | SHIFT   |
| 2659.500        | 8725.394      | BASE FISH SCALES ZONE | BFSC    |
| 2750.000        | 9022.310      | PADDY MBR             | PADY    |
| 2769.000        | 9084.646      | CADOTTE MBR           | CDOT    |
| 2787.000        | 9143.701      | HARMON MBR            | HARM    |
| 2804.500        | 9201.116      | NOTIKEWIN MBR         | NOTI    |
| 2878.000        | 9442.258      | FALHER MBR            | FALH    |
| 3058.000        | 10032.809     | WILRICH MBR           | WILR    |
| 3121.000        | 10239.502     | BLUESKY FM            | BLSK    |
| 3127.000        | 10259.187     | GETHING FM            | GETH    |
| 3240.000        | 10629.922     | CADOMIN FM            | CADM    |
| 3252.000        | 10669.292     | NIKANASSIN FM         | NIKA    |

Site ID: 97368      Source ID: 00/09-10-063-06W6/0

Latitude: 54.438812      Well Length: 1841.000

Longitude: 118.810909

KB Elevation: 998.800      Status: Capped Gaswell

Well Name: UNION ESSO KAKWA 9-10-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1474.500        | 4837.599      | WAPIABI FM   | WPBI    |
| 1511.500        | 4958.990      | CHINOOK MBR  | CHNK    |
| 1612.000        | 5286.714      | COLORADO GRP | COLO    |
| 1704.500        | 5592.192      | BADHEART FM  | BADH    |
| 1773.000        | 5816.929      | CARDIUM FM   | CARD    |
| 1812.000        | 5944.882      | CARDIUM SD   | CARD SD |
| 1823.000        | 5980.971      | KASKAPAU FM  | KPAU    |

Site ID: 97369

Source ID: 00/11-11-063-06W6/0

Latitude: 54.438209

Well Length: 1836.000

Longitude: 118.798217

KB Elevation: 979.100

Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 11-11-63-6

Depth  
Meters

Depth  
Feet

Horizon Name

1450.500

4758.858

WAPIABI FM

WPBI

1596.300

5237.205

COLORADO GRP

COLO

1690.600

5546.588

BADHEART FM

BADH

1758.500

5769.357

CARDIUM FM

CARD

1795.500

5890.748

CARDIUM SD

CARD SD

1809.000

5935.040

KASKAPAU FM

KPAU

Site ID: 141119      Source ID: 00/07-12-063-06W6/0

Latitude:      54.433311      Well Length:    1838.000  
Longitude:    118.762112  
KB Elevation:    999.600      Status:    Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 7-12-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1469.700        | 4821.851      | WAPIABI FM   | WPBI    |
| 1516.000        | 4973.753      | CHINOOK MBR  | CHNK    |
| 1555.000        | 5101.706      | COLORADO GRP | COLO    |
| 1700.700        | 5579.725      | BADHEART FM  | BADH    |
| 1730.000        | 5675.853      | MUSKIKI FM   | MSKK    |
| 1781.800        | 5845.801      | CARDIUM FM   | CARD    |
| 1809.000        | 5935.040      | CARDIUM SD   | CARD SD |
| 1838.000        | 6030.184      | TOTAL DEPTH  | TD      |

Site ID: 152357      Source ID: 00/07-12-063-06W6/2

Latitude:      54.433311      Well Length:      1838.000  
Longitude:      118.762112  
KB Elevation:      999.600      Status:      Flowing Oilwell

Well Name:      UNOCAL ET AL KAKWA 7-12-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1469.700        | 4821.851      | WAPIABI FM   | WPBI    |
| 1516.000        | 4973.753      | CHINOOK MBR  | CHNK    |
| 1555.000        | 5101.706      | COLORADO GRP | COLO    |
| 1700.700        | 5579.725      | BADHEART FM  | BADH    |
| 1730.000        | 5675.853      | MUSKIKI FM   | MSKK    |
| 1781.800        | 5845.801      | CARDIUM FM   | CARD    |
| 1809.000        | 5935.040      | CARDIUM SD   | CARD SD |
| 1838.000        | 6030.184      | TOTAL DEPTH  | TD      |

Site ID: 97370      Source ID: 00/06-13-063-06W6/0

Latitude: 54.448247      Well Length: 1794.000

Longitude: 118.772659

KB Elevation: 991.300      Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 6-13-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1450.500        | 4758.858      | WAPIABI FM   | WPBI    |
| 1578.500        | 5178.806      | COLORADO GRP | COLO    |
| 1666.700        | 5468.176      | BADHEART FM  | BADH    |
| 1737.200        | 5699.475      | CARDIUM FM   | CARD    |
| 1773.300        | 5817.914      | CARDIUM SD   | CARD SD |
| 1788.300        | 5867.126      | KASKAPAU FM  | KPAU    |

Site ID: 97371 Source ID: 00/06-13-063-06W6/2

Latitude: 54.448247 Well Length: 1794.000  
Longitude: 118.772659  
KB Elevation: 991.300 Status: Flowing Oilwell

Well Name: UNION ESSO MUSREAU 6-13-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1450.500        | 4758.858      | WAPIABI FM   | WPBI    |
| 1578.500        | 5178.806      | COLORADO GRP | COLO    |
| 1666.700        | 5468.176      | BADHEART FM  | BADH    |
| 1737.200        | 5699.475      | CARDIUM FM   | CARD    |
| 1773.300        | 5817.914      | CARDIUM SD   | CARD SD |
| 1788.300        | 5867.126      | KASKAPAU FM  | KPAU    |



Site ID: 97372      Source ID: 00/11-14-063-06W6/0

Latitude:      54.453450      Well Length:      1738.000  
Longitude:      118.797081  
KB Elevation:      927.300      Status:      Suspended Gaswell

Well Name:      UNION ESSO KAKWA 11-14-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1369.000        | 4491.470      | WAPIABI FM   | WPBI    |
| 1507.500        | 4945.866      | COLORADO GRP | COLO    |
| 1598.500        | 5244.423      | BADHEART FM  | BADH    |
| 1663.500        | 5457.677      | CARDIUM FM   | CARD    |
| 1702.000        | 5583.990      | CARDIUM SD   | CARD SD |
| 1715.000        | 5626.641      | KASKAPAU FM  | KPAU    |

Site ID: 97373      Source ID: 00/07-18-063-06W6/0

Latitude: 54.447932      Well Length: 1886.000  
Longitude: 118.888841  
KB Elevation: 1045.400      Status: Capped Gaswell

Well Name: UNION ESSO MUSREAU 7-18-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1512.500        | 4962.271      | WAPIABI FM   | WPBI    |
| 1663.500        | 5457.677      | COLORADO GRP | COLO    |
| 1761.000        | 5777.559      | BADHEART FM  | BADH    |
| 1823.000        | 5980.971      | CARDIUM FM   | CARD    |
| 1855.000        | 6085.958      | CARDIUM SD   | CARD SD |
| 1867.000        | 6125.328      | KASKAPAU FM  | KPAU    |

Site ID: 97374      Source ID: 00/09-24-063-06W6/0

Latitude: 54.467638      Well Length: 1845.000  
Longitude: 118.760990  
KB Elevation: 1010.100      Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 9-24C-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name  |         |
|-----------------|---------------|---------------|---------|
| 1521.000        | 4990.158      | PUSKWASKAU FM | PSKW    |
| 1593.000        | 5226.378      | CHINOOK MBR   | CHNK    |
| 1685.000        | 5528.215      | BADHEART FM   | BADH    |
| 1709.000        | 5606.956      | MUSKIKI FM    | MSKK    |
| 1755.000        | 5757.874      | CARDIUM FM    | CARD    |
| 1786.000        | 5859.580      | CARDIUM SD    | CARD SD |
| 1799.500        | 5903.872      | KASKAPAU FM   | KPAU    |

Site ID: 97375      Source ID: 00/10-24-063-06W6/0

Latitude: 54.467762      Well Length: 1830.000

Longitude: 118.762027

KB Elevation: 1011.100      Status: Suspended Well

Well Name: UNOCAL ET AL KAKWA 10-24-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1520.400        | 4988.189      | WAPIABI FM   | WPBI    |
| 1595.000        | 5232.940      | COLORADO GRP | COLO    |
| 1686.200        | 5532.152      | BADHEART FM  | BADH    |
| 1756.300        | 5762.140      | CARDIUM FM   | CARD    |
| 1788.100        | 5866.470      | CARDIUM SD   | CARD SD |
| 1799.000        | 5902.231      | KASKAPAU FM  | KPAU    |

Site ID: 97376

Source ID: 00/10-24-063-06W6/2

Latitude: 54.467762

Well Length: 1830.000

Longitude: 118.762027

KB Elevation: 1011.100

Status: Flowing Gaswell

Well Name: UNOCAL ET AL KAKWA 10-24-63-6

Depth  
Meters

Depth  
Feet

Horizon Name

1520.400

4988.189

WAPIABI FM

WPBI

1595.000

5232.940

COLORADO GRP

COLO

1686.200

5532.152

BADHEART FM

BADH

1756.300

5762.140

CARDIUM FM

CARD

1788.100

5866.470

CARDIUM SD

CARD SD

1799.000

5902.231

KASKAPAU FM

KPAU

Site ID: 97377

Source ID: 00/09-25-063-06W6/0

Latitude: 54.482720

Well Length: 1799.500

Longitude: 118.761155

KB Elevation: 995.700

Status: Suspended Oilwell

Well Name: DOME ET AL KAKWA 9-25-63-6

Depth  
Meters

Depth  
Feet

Horizon Name

1445.500

4742.454

WAPIABI FM

WPBI

1568.500

5145.998

COLORADO GRP

COLO

1655.000

5429.790

BADHEART FM

BADH

1723.000

5652.887

CARDIUM FM

CARD

1751.500

5746.391

CARDIUM SD

CARD SD

1769.000

5803.806

KASKAPAU FM

KPAU

Site ID: 97378      Source ID: 00/06-27-063-06W6/0

Latitude: 54.477019      Well Length: 1778.000  
Longitude: 118.822822  
KB Elevation: 979.000      Status: Suspended Gaswell

Well Name: ESSO UNION MUSREAU 6-27C-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1416.600        | 4647.638      | WAPIABI FM   | WPBI    |
| 1549.000        | 5082.021      | COLORADO GRP | COLO    |
| 1640.200        | 5381.233      | BADHEART FM  | BADH    |
| 1708.500        | 5605.315      | CARDIUM FM   | CARD    |
| 1744.300        | 5722.770      | CARDIUM SD   | CARD SD |

Site ID: 97379      Source ID: 00/06-29-063-06W6/0

Latitude: 54.476567      Well Length: 1855.000  
Longitude: 118.873575  
KB Elevation: 1051.000      Status: Flowing Gaswell

Well Name: UNION ESSO KAKWA 6-29-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1462.000        | 4796.588      | WAPIABI FM   | WPBI    |
| 1612.100        | 5289.042      | COLORADO GRP | COLO    |
| 1705.500        | 5595.473      | BADHEART FM  | BADH    |
| 1768.000        | 5800.525      | CARDIUM FM   | CARD    |
| 1803.300        | 5916.339      | CARDIUM SD   | CARD SD |
| 1812.500        | 5946.522      | KASKAPAU FM  | KPAU    |



Site ID: 97380      Source ID: 00/06-31-063-06W6/0

Latitude: 54.492763      Well Length: 3238.000  
Longitude: 118.897295  
KB Elevation: 1010.500      Status: Suspended Oilwell

Well Name: CANHUNTER ET AL RED ROCK 6-31-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1435.000        | 4708.005      | WAPIABI FM            | WPBI    |
| 1474.000        | 4835.958      | CHINOOK MBR           | CHNK    |
| 1570.000        | 5150.919      | COLORADO GRP          | COLO    |
| 1666.000        | 5465.879      | BADHEART FM           | BADH    |
| 1727.000        | 5666.011      | CARDIUM FM            | CARD    |
| 1758.000        | 5767.717      | CARDIUM SD            | CARD SD |
| 1783.000        | 5849.738      | KASKAPAU FM           | KPAU    |
| 2283.000        | 7490.158      | DUNVEGAN FM           | DUNV    |
| 2382.000        | 7814.961      | SHAFTESBURY FM        | SHIFT   |
| 2469.000        | 8100.394      | BASE FISH SCALES ZONE | BFSC    |
| 2567.500        | 8423.557      | PADDY MBR             | PADY    |
| 2582.000        | 8471.129      | CADOTTE MBR           | CDOT    |
| 2605.000        | 8546.588      | HARMON MBR            | HARM    |
| 2630.000        | 8628.609      | SPIRIT RIVER FM       | SPRT R  |
| 2932.000        | 9619.423      | BLUESKY FM            | BLSK    |
| 2952.000        | 9685.040      | GETHING FM            | GETH    |
| 3065.000        | 10055.774     | CADOMIN FM            | CADM    |
| 3070.000        | 10072.179     | NIKANASSIN FM         | NIKA    |

Site ID: 97381      Source ID: 00/11-32-063-06W6/0

Latitude: 54.497684      Well Length: 1755.000  
Longitude: 118.874485  
KB Elevation: 1025.200      Status: Suspended Gaswell

Well Name: CANHUNTER ET AL KAKWA 11-32-63-6

| Depth<br>Meters | Depth<br>Feet | Horizon Name |      |
|-----------------|---------------|--------------|------|
| 1452.000        | 4763.780      | WAPIABI FM   | WPBI |
| 1488.000        | 4881.890      | CHINOOK MBR  | CHNK |
| 1581.000        | 5187.008      | COLORADO GRP | COLO |
| 1672.000        | 5485.564      | BADHEART FM  | BADH |
| 1738.000        | 5702.100      | CARDIUM FM   | CARD |
| 1755.000        | 5757.874      | TOTAL DEPTH  | TD   |

Site ID: 97382      Source ID: 00/10-01-063-07W6/0

Latitude: 54.424437      Well Length: 2045.000

Longitude: 118.913716

KB Elevation: 1185.400      Status: Abandoned Well

Well Name: UNION ESSO MUSREAU 10-1-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1670.200        | 5479.659      | WAPIABI FM   | WPB:    |
| 1811.400        | 5942.914      | COLORADO GRP | COLO    |
| 1902.500        | 6241.798      | BADHEART FM  | BADH    |
| 1981.000        | 6499.344      | CARDIUM FM   | CARD    |
| 2014.200        | 6608.268      | CARDIUM SD   | CARD SD |
| 2024.500        | 6642.061      | KASKAPAU FM  | KPAU    |

Site ID: 97383      Source ID: 00/10-09-063-07W6/0

Latitude: 54.436438      Well Length: 3155.000  
Longitude: 118.993204  
KB Elevation: 794.800      Status: Abandoned Well

Well Name: DOME ET AL KAKWA 10-9-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1579.500        | 5182.087      | WAPIABI FM            | WPBI    |
| 1722.700        | 5651.903      | COLORADO GRP          | COLO    |
| 1818.000        | 5964.567      | BADHEART FM           | BADH    |
| 1897.600        | 6225.722      | CARDIUM FM            | CARD    |
| 1924.500        | 6313.977      | CARDIUM SD            | CARD SD |
| 1946.500        | 6386.155      | KASKAPAU FM           | KPAU    |
| 2467.000        | 8093.833      | DUNVEGAN FM           | DUNV    |
| 2565.000        | 8415.354      | SHAFTESBURY FM        | SHIFT   |
| 2662.000        | 8733.596      | BASE FISH SCALES ZONE | BFSC    |
| 2758.800        | 9051.182      | PADDY MBR             | PADY    |
| 2774.000        | 9101.050      | CADOTTE MBR           | CDOT    |
| 2794.500        | 9168.308      | HARMON MBR            | HARM    |
| 2820.500        | 9253.609      | SPIRIT RIVER FM       | SPRT R  |

Site ID: 97384

Source ID: 00/08-10-063-07W6/0

Latitude: 54.432903

Well Length: 3555.000

Longitude: 118.962965

KB Elevation: 1135.500

Status: Capped Gaswell

Well Name: DOME ET AL RED ROCK 8-10-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1552.000        | 5091.864      | WAPIABI FM            | WPBI    |
| 1571.500        | 5155.840      | CHINOOK MBR           | CHNK    |
| 1848.500        | 6064.633      | BADHEART FM           | BADH    |
| 1928.000        | 6325.459      | CARDIUM FM            | CARD    |
| 1956.500        | 6418.963      | CARDIUM SD            | CARD SD |
| 1980.000        | 6496.063      | KASKAPAU FM           | KPAU    |
| 2503.000        | 8211.942      | DUNVEGAN FM           | DUNV    |
| 2617.000        | 8585.958      | SHAFTESBURY FM        | SHIFT   |
| 2694.000        | 8838.583      | BASE FISH SCALES ZONE | BFSC    |
| 2790.000        | 9153.544      | PADDY MBR             | PADY    |
| 2806.500        | 9207.678      | CADOTTE MBR           | CDOT    |
| 2826.000        | 9271.654      | HARMON MBR            | HARM    |
| 2838.000        | 9311.023      | SPIRIT RIVER FM       | SPRT R  |
| 3167.000        | 10390.420     | BLUESKY FM            | BLSK    |
| 3175.000        | 10416.667     | GETHING FM            | GETH    |
| 3286.000        | 10780.840     | CADOMIN FM            | CADM    |
| 3301.500        | 10831.693     | NIKANASSIN FM         | NIKA    |
| 3470.000        | 11384.515     | FERNIE GRP            | FERN    |

Site ID: 97386      Source ID: 00/15-24-063-07W6/0

Latitude: 54.470092      Well Length: 1773.000  
Longitude: 118.913782  
KB Elevation: 953.900      Status: Suspended Oilwell

Well Name: UNION ESSO MUSREAU 15-24-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1403.000        | 4603.019      | WAPIABI FM   | WPBI    |
| 1549.000        | 5082.021      | COLORADO GFP | COLO    |
| 1645.500        | 5398.622      | BADHEART FM  | BADH    |
| 1707.700        | 5602.690      | CARDIUM FM   | CARD    |
| 1742.000        | 5715.223      | CARDIUM SD   | CARD SD |
| 1749.800        | 5740.814      | KASKAPAU FM  | KPAU    |

Site ID: 97387

Source ID: 00/10-25-063-07W6/0

Latitude: 54.482057

Well Length: 3749.000

Longitude: 118.917153

KB Elevation: 1031.700

Status: Flowing Gaswell

Well Name: UNION IMP CUTBANK 10-25-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1460.400        | 4791.339      | WAPIABI FM            | WPBI    |
| 1604.200        | 5263.124      | COLORADO GRP          | COLO    |
| 1704.000        | 5590.551      | BADHEART FM           | BADH    |
| 1761.600        | 5779.528      | CARDIUM FM            | CARD    |
| 1795.000        | 5889.108      | CARDIUM SD            | CARD SD |
| 1803.000        | 5915.354      | KASKAPAU FM           | KPAU    |
| 2332.300        | 7651.903      | DUNVEGAN FM           | DUNV    |
| 2437.000        | 7995.407      | SHAFTESBURY FM        | SHIFT   |
| 2516.400        | 8255.905      | BASE FISH SCALES ZONE | BFSC    |
| 2612.000        | 8569.554      | PADDY MBR             | PADY    |
| 2627.500        | 8620.407      | CADOTTE MBR           | CDOT    |
| 2651.000        | 8697.507      | HARMON MBR            | HARM    |
| 2677.000        | 8782.809      | SPIRIT RIVER FM       | SPRT R  |
| 2982.500        | 9785.105      | BLUESKY FM            | BLSK    |
| 2990.400        | 9811.023      | GETHING FM            | GETH    |
| 3100.500        | 10172.244     | CADOMIN FM            | CADM    |
| 3110.000        | 10203.412     | NIKANASSIN FM         | NIKA    |
| 3263.000        | 10705.381     | FERNIE GRP            | FERN    |
| 3342.000        | 10964.567     | NORDEGG MBR           | NORD    |
| 3362.000        | 11030.184     | CHARLIE LAKE FM       | CH LK   |
| 3437.000        | 11276.247     | DOIG FM               | DOIG    |
| 3483.500        | 11428.806     | MONTNEY FM            | MONT    |

Site ID: 97388      Source ID: 00/10-25-063-07W6/2

Latitude: 54.482057      Well Length: 3749.000  
Longitude: 118.917153  
KB Elevation: 1031.700      Status: Suspended Well

Well Name: UNION IMP CUTBANK 10-25-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1460.400        | 4791.339      | WAPIABI FM            | WPBI    |
| 1604.200        | 5263.124      | COLORADO GRP          | COLO    |
| 1704.000        | 5590.551      | BADHEART FM           | BADH    |
| 1761.600        | 5779.528      | CARDIUM FM            | CARD    |
| 1795.000        | 5889.108      | CARDIUM SD            | CARD SD |
| 1803.000        | 5915.354      | KASKAPAU FM           | KPAU    |
| 2332.300        | 7651.903      | DUNVEGAN FM           | DUNV    |
| 2437.000        | 7995.407      | SHAFTESBURY FM        | SHIFT   |
| 2516.400        | 8255.905      | BASE FISH SCALES ZONE | BFSC    |
| 2612.000        | 8569.554      | PADDY MBR             | PADY    |
| 2627.500        | 8620.407      | CADOTTE MBR           | CDOT    |
| 2651.000        | 8697.507      | HARMON MBR            | HARM    |
| 2677.000        | 8782.809      | SPIRIT RIVER FM       | SPRT R  |
| 2982.500        | 9785.105      | BLUESKY FM            | BLSK    |
| 2990.400        | 9811.023      | GETHING FM            | GETH    |
| 3100.500        | 10172.244     | CADOMIN FM            | CADM    |
| 3110.000        | 10203.412     | NIKANASSIN FM         | NIKA    |
| 3263.000        | 10705.381     | FERNIE GRP            | FERN    |
| 3342.000        | 10964.567     | NORDEGG MBR           | NORD    |
| 3362.000        | 11030.184     | CHARLIE LAKE FM       | CH LK   |
| 3437.000        | 11276.247     | DOIG FM               | DOIG    |
| 3483.500        | 11428.806     | MONTNEY FM            | MONT    |



Site ID: 97389 Source ID: 00/10-28-063-07W6/0

Latitude: 54.482347 Well Length: 3400.000  
Longitude: 118.988405  
KB Elevation: 1074.200 Status: Suspended Well

Well Name: DOME ET AL KAKWA 10-28-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1492.500        | 4896.654      | CHINOOK MBR           | CHNK    |
| 1737.500        | 5700.459      | BADHEART FM           | BADH    |
| 1813.000        | 5948.163      | CARDIUM FM            | CARD    |
| 1845.000        | 6053.150      | CARDIUM SD            | CARD SD |
| 1862.000        | 6108.924      | KASKAPAU FM           | KPAU    |
| 2383.000        | 7818.242      | DUNVEGAN FM           | DUNV    |
| 2495.000        | 8185.696      | SHAFTESBURY FM        | SHIFT   |
| 2576.500        | 8453.084      | BASE FISH SCALES ZONE | BFSC    |
| 2673.000        | 8769.686      | PADDY MBR             | PADY    |
| 2693.000        | 8835.302      | CADOTTE MBR           | CDOT    |
| 2714.500        | 8905.840      | HARMON MBR            | HARM    |
| 2741.000        | 8992.782      | SPIRIT RIVER FM       | SPRT R  |
| 2793.000        | 9163.386      | FALHER MBR            | FALH    |
| 3055.000        | 10022.966     | BLUESKY FM            | BLSK    |
| 3063.000        | 10049.213     | GETHING FM            | GETH    |
| 3178.000        | 10426.510     | CADOMIN FM            | CADM    |
| 3193.000        | 10475.722     | NIKANASSIN FM         | NIKA    |
| 3355.500        | 11008.858     | FERNIE GRP            | FERN    |

Site ID: 97392 Source ID: 00/10-33-063-07W6/0

Latitude: 54.496931 Well Length: 3263.000  
Longitude: 118.989796  
KB Elevation: 988.100 Status: Suspended Gaswell

Well Name: DOME ET AL CUTBANK 10-33-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1415.500        | 4644.029      | WAPIABI FM            | WPBI    |
| 1545.000        | 5068.898      | COLORADO GRP          | COLO    |
| 1632.500        | 5355.971      | BADHEART FM           | BADH    |
| 1703.000        | 5587.271      | CARDIUM FM            | CARD    |
| 1735.600        | 5694.226      | CARDIUM SD            | CARD SD |
| 1754.000        | 5754.593      | KASKAPAU FM           | KPAU    |
| 2285.500        | 7498.360      | DUNVEGAN FM           | DUNV    |
| 2390.200        | 7841.864      | SHAFTESBURY FM        | SHIFT   |
| 2478.000        | 8129.921      | BASE FISH SCALES ZONE | BFSC    |
| 2572.000        | 8438.320      | PADDY MBR             | PADY    |
| 2594.000        | 8510.499      | CADOTTE MBR           | CDOT    |
| 2615.000        | 8579.396      | HARMON MBR            | HARM    |
| 2642.000        | 8667.979      | SPIRIT RIVER FM       | SPRT R  |
| 2688.000        | 8818.897      | FALHER MBR            | FALH    |
| 2956.000        | 9698.163      | GETHING FM            | GETH    |
| 3078.500        | 10100.066     | CADOMIN FM            | CADM    |
| 3089.000        | 10134.515     | NIKANASSIN FM         | NIKA    |

Site ID: 97393      Source ID: 00/10-33-063-07W6/2

Latitude: 54.496931      Well Length: 3263.000  
Longitude: 118.989796  
KB Elevation: 988.100      Status: Capped Gaswell

Well Name: DOME ET AL CUTBANK 10-33-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1415.500        | 4644.029      | WAPIABI FM            | WPBI    |
| 1545.000        | 5068.898      | COLORADO GRP          | COLO    |
| 1632.500        | 5355.971      | BADHEART FM           | BADH    |
| 1703.000        | 5587.271      | CARDIUM FM            | CARD    |
| 1735.600        | 5694.226      | CARDIUM SD            | CARD SD |
| 1754.000        | 5754.593      | KASKAPAU FM           | KPAU    |
| 2285.500        | 7498.360      | DUNVEGAN FM           | DUNV    |
| 2390.200        | 7841.864      | SHAFTESBURY FM        | SHIFT   |
| 2478.000        | 8129.921      | BASE FISH SCALES ZONE | BFSC    |
| 2572.000        | 8438.320      | PADDY MBR             | PADY    |
| 2594.000        | 8510.499      | CADOTTE MBR           | CDOT    |
| 2615.000        | 8579.396      | HARMON MBR            | HARM    |
| 2642.000        | 8667.979      | SPIRIT RIVER FM       | SPRT R  |
| 2688.000        | 8818.897      | FALHER MBR            | FALH    |
| 2956.000        | 9698.163      | GETHING FM            | GETH    |
| 3078.500        | 10100.066     | CADOMIN FM            | CADM    |
| 3089.000        | 10134.515     | NIKANASSIN FM         | NIKA    |

Site ID: 97394 Source ID: 00/10-33-063-07W6/3

Latitude: 54.496931 Well Length: 3263.000

Longitude: 118.989796

KB Elevation: 988.100 Status: Flowing Gaswell

Well Name: DOME ET AL CUTBANK 10-33-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name          |         |
|-----------------|---------------|-----------------------|---------|
| 1415.500        | 4644.029      | WAPIABI FM            | WPBI    |
| 1545.000        | 5068.898      | COLORADO GRP          | COLO    |
| 1632.500        | 5355.971      | BADHEART FM           | BADH    |
| 1703.000        | 5587.271      | CARDIUM FM            | CARD    |
| 1735.600        | 5694.226      | CARDIUM SD            | CARD SD |
| 1754.000        | 5754.593      | KASKAPAU FM           | KPAU    |
| 2285.500        | 7498.360      | DUNVEGAN FM           | DUNV    |
| 2390.200        | 7841.864      | SHAFTESBURY FM        | SHFT    |
| 2478.000        | 8129.921      | BASE FISH SCALES ZONE | BFSC    |
| 2572.000        | 8438.320      | PADDY MBR             | PADY    |
| 2594.000        | 8510.499      | CADOTTE MBR           | CDOT    |
| 2615.000        | 8579.396      | HARMON MBR            | HARM    |
| 2642.000        | 8667.979      | SPIRIT RIVER FM       | SPRT R  |
| 2688.000        | 8818.897      | FALHER MBR            | FALH    |
| 2956.000        | 9698.163      | GETHING FM            | GETH    |
| 3078.500        | 10100.066     | CADOMIN FM            | CADM    |
| 3089.000        | 10134.515     | NIKANASSIN FM         | NIKA    |

Site ID: 97395

Source ID: 00/11-36-063-07W6/0

Latitude: 54.496950

Well Length: 1750.000

Longitude: 118.924163

KB Elevation: 965.100

Status: Suspended Gaswell

Well Name: UNION ESSO MUSREAU 11-36-63-7

| Depth<br>Meters | Depth<br>Feet | Horizon Name |         |
|-----------------|---------------|--------------|---------|
| 1376.000        | 4514.436      | WAPIABI FM   | WPBI    |
| 1420.000        | 4668.635      | CHINOOK MBR  | CHNK    |
| 1526.500        | 5008.202      | COLORADO GRP | COLO    |
| 1625.000        | 5331.365      | BADHEART FM  | BADH    |
| 1682.000        | 5518.373      | CARDIUM FM   | CARD    |
| 1713.200        | 5620.735      | CARDIUM SD   | CARD SD |
| 1729.500        | 5674.213      | KASKAPAU FM  | KPAU    |

Appendix 4. 83L/7 - Coal Intersections of the Coal Drillholes

.....  
 CURRENT FILE NAME: [COALREG.90]83L7 PX.DAT  
 ORIGINAL FILENAME: [COALREG.90]P83L7.DAT  
 MAPSHEET: NTS 83L/7  
 .....

NOTE: Geology picks have been modified from the AGS Coal Database, April, 1989 version of ERCB Coal Hole File.  
 See GSC Paper 88-21 (Hughes, Mudry & Nikols) for the details of criteria.  
 DWF 9012  
 .....

| SITID   | CAT_ID | ORIG   | M | T  | R | S  | TOP_DEPTH | BOT_DEPTH | THICK | SEAM | MIN | REGOLITH | PIKNUM | REMARKS |
|---------|--------|--------|---|----|---|----|-----------|-----------|-------|------|-----|----------|--------|---------|
| 1048088 | 362624 | 000039 | 6 | 61 | 4 | 34 | 16.820    | 17.590    | 0.770 | 0    | 0   | 0.000    | 328405 |         |
| 1048088 | 362624 | 000039 | 6 | 61 | 4 | 34 | 99.880    | 100.430   | 0.550 | 0    | 0   | 0.000    | 328406 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 24.900    | 25.500    | 0.600 | 110  | 40  | 16.400   | 328413 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 27.700    | 28.800    | 1.100 | 115  | 50  | 16.400   | 328414 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 76.600    | 77.200    | 0.600 | 160  | 25  | 16.400   | 328420 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 77.600    | 78.200    | 0.600 | 162  | 20  | 16.400   | 328422 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 79.000    | 79.500    | 0.500 | 164  | 40  | 16.400   | 328423 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 99.100    | 99.900    | 0.800 | 180  | 40  | 16.400   | 328426 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 101.600   | 102.200   | 0.600 | 193  | 40  | 16.400   | 328429 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 103.950   | 104.600   | 0.650 | 200  | 25  | 16.400   | 328432 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 104.900   | 105.500   | 0.600 | 202  | 35  | 16.400   | 328434 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 107.300   | 107.900   | 0.600 | 208  | 25  | 16.400   | 328435 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 128.500   | 129.000   | 0.500 | 216  | 50  | 16.400   | 328436 |         |
| 1048089 | 513374 | 83-53  | 6 | 61 | 6 | 32 | 129.600   | 130.300   | 0.700 | 218  | 50  | 16.400   | 328437 |         |
| 535856  | 87-102 |        | 6 | 61 | 7 | 26 | 21.400    | 23.280    | 1.880 | 0    | 0   | 9.200    |        |         |
| 535856  | 87-102 |        | 6 | 61 | 7 | 26 | 50.060    | 51.080    | 1.020 | 0    | 0   | 9.200    |        |         |
| 535856  | 87-102 |        | 6 | 61 | 7 | 26 | 54.540    | 55.440    | 0.900 | 0    | 0   | 9.200    |        |         |
| 1048091 | 513283 | 83-39  | 6 | 61 | 7 | 27 | 51.200    | 51.800    | 0.600 | 175  | 45  | 6.000    | 328449 |         |
| 1048091 | 513283 | 83-39  | 6 | 61 | 7 | 27 | 53.800    | 54.300    | 0.500 | 180  | 45  | 6.000    | 328452 |         |
| 1048091 | 513283 | 83-39  | 6 | 61 | 7 | 27 | 72.500    | 73.200    | 0.700 | 195  | 15  | 6.000    | 328456 |         |
| 1048091 | 513283 | 83-39  | 6 | 61 | 7 | 27 | 111.300   | 111.800   | 0.500 | 225  | 20  | 6.000    | 328461 |         |
| 1048092 | 513275 | 83-38  | 6 | 61 | 7 | 33 | 46.600    | 47.300    | 0.700 | 180  | 50  | 16.000   | 328464 |         |
| 1048092 | 513275 | 83-38  | 6 | 61 | 7 | 33 | 50.700    | 51.200    | 0.500 | 195  | 20  | 16.000   | 328466 |         |
| 1048092 | 513275 | 83-38  | 6 | 61 | 7 | 33 | 95.300    | 95.900    | 0.600 | 225  | 45  | 16.000   | 328467 |         |
| 1048112 | 362756 | 000006 | 6 | 62 | 4 | 3  | 21.950    | 22.400    | 0.450 | 0    | 0   | 0.000    | 328676 |         |
| 1048112 | 362756 | 000006 | 6 | 62 | 4 | 3  | 40.540    | 41.360    | 0.820 | 0    | 0   | 0.000    | 328677 |         |
| 1048113 | 362764 | 75-6C  | 6 | 62 | 4 | 3  | 40.540    | 42.180    | 1.640 | 225  | 0   | 40.500   |        |         |
| 1048113 | 362764 | 75-6C  | 6 | 62 | 4 | 3  | 42.820    | 43.130    | 0.310 | 228  | 40  | 40.500   | 328686 |         |
| 1048114 | 362780 | 8      | 6 | 62 | 4 | 3  | 69.400    | 70.500    | 1.100 | 225  | 0   | 13.700   |        |         |
| 1048114 | 362780 | 8      | 6 | 62 | 4 | 3  | 75.380    | 75.860    | 0.480 | 230  | 0   | 13.700   |        |         |
| 1048115 | 362798 | 75-8C  | 6 | 62 | 4 | 3  | 67.060    | 68.280    | 1.220 | 0    | 0   | 0.000    |        |         |
| 1048115 | 362798 | 75-8C  | 6 | 62 | 4 | 3  | 69.040    | 69.950    | 0.910 | 0    | 0   | 0.000    |        |         |
| 1048116 | 362806 | 9      | 6 | 62 | 4 | 3  | 31.910    | 32.740    | 0.830 | 120  | 25  | 3.200    | 328727 |         |
| 1048116 | 362806 | 9      | 6 | 62 | 4 | 3  | 90.280    | 90.920    | 0.640 | 175  | 35  | 3.200    | 328728 |         |
| 1048117 | 362814 | 75-9C  | 6 | 62 | 4 | 3  | 30.690    | 31.300    | 0.610 | 120  | 0   | 0.000    | 328730 |         |
| 1048118 | 363226 | 75-38  | 6 | 62 | 4 | 3  | 71.840    | 72.300    | 0.460 | 220  | 20  | 4.600    | 328733 |         |



|         |        |        |   |    |   |    |         |         |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|---------|---------|-------|-----|----|--------|--------|
| 1048118 | 363226 | 75-38  | 6 | 62 | 4 | 3  | 78.910  | 79.890  | 0.980 | 225 | 0  | 4.600  |        |
| 1048119 | 363234 | 75-40  | 6 | 62 | 4 | 3  | 50.410  | 51.330  | 0.920 | 120 | 0  | 7.600  |        |
| 1048119 | 363234 | 75-40  | 6 | 62 | 4 | 3  | 139.260 | 140.270 | 1.010 | 220 | 0  | 7.600  |        |
| 1048119 | 363234 | 75-40  | 6 | 62 | 4 | 3  | 143.800 | 144.930 | 1.130 | 223 | 0  | 7.600  |        |
| 1048119 | 363234 | 75-40  | 6 | 62 | 4 | 3  | 145.600 | 146.850 | 1.250 | 225 | 0  | 7.600  |        |
| 1048120 | 362673 | 000099 | 6 | 62 | 4 | 9  | 30.480  | 32.000  | 1.520 | 0   | 0  | 0.000  |        |
| 1048120 | 362673 | 000099 | 6 | 62 | 4 | 9  | 33.530  | 35.050  | 1.52  | 0   | 0  | 0.000  |        |
| 1048121 | 362723 | 000093 | 6 | 62 | 4 | 9  | 47.760  | 48.300  | 0.540 | 0   | 0  | 0.000  |        |
| 1048123 | 362822 | 10     | 6 | 62 | 4 | 9  | 50.750  | 52.180  | 1.430 | 223 | 0  | 0.100  |        |
| 1048123 | 362822 | 10     | 6 | 62 | 4 | 9  | 52.820  | 54.250  | 1.430 | 225 | 0  | 0.100  |        |
| 1048124 | 362830 | 75-10C | 6 | 62 | 4 | 9  | 49.830  | 51.210  | 1.380 | 223 | 0  | 0.000  |        |
| 1048124 | 362830 | 75-10C | 6 | 62 | 4 | 9  | 51.970  | 53.000  | 1.030 | 225 | 0  | 0.000  |        |
| 1048125 | 363002 | 000021 | 6 | 62 | 4 | 9  | 24.080  | 24.780  | 0.700 | 0   | 0  | 0.000  | 328825 |
| 1048126 | 363044 | 24C    | 6 | 62 | 4 | 9  | 8.530   | 9.850   | 1.320 | 225 | 25 | 7.000  | 328827 |
| 1048130 | 362707 | 10-E   | 6 | 62 | 4 | 10 | 43.220  | 45.840  | 2.620 | 0   | 0  | 0.000  |        |
| 1048130 | 362707 | 10-E   | 6 | 62 | 4 | 10 | 46.630  | 47.790  | 1.160 | 0   | 0  | 0.000  |        |
| 1048131 | 362731 | 4      | 6 | 62 | 4 | 10 | 45.170  | 46.510  | 1.340 | 223 | 0  | 34.900 |        |
| 1048131 | 362731 | 4      | 6 | 62 | 4 | 10 | 47.210  | 48.740  | 1.530 | 225 | 0  | 34.900 |        |
| 1048133 | 362962 | 17C    | 6 | 62 | 4 | 10 | 44.500  | 46.020  | 1.520 | 0   | 0  | 0.000  |        |
| 1048133 | 362962 | 17C    | 6 | 62 | 4 | 10 | 46.790  | 48.620  | 1.830 | 0   | 0  | 0.000  |        |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 23.440  | 24.110  | 0.670 | 120 | 20 | 9.300  | 328895 |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 86.410  | 86.900  | 0.490 | 190 | 20 | 9.300  | 328898 |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 111.710 | 112.870 | 1.160 | 223 | 0  | 9.300  |        |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 113.480 | 115.790 | 2.310 | 225 | 0  | 9.300  |        |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 129.540 | 130.030 | 0.490 | 240 | 0  | 9.300  |        |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 148.960 | 149.570 | 0.610 | 250 | 35 | 9.300  | 328923 |
| 1048134 | 363242 | 75-41  | 6 | 62 | 4 | 10 | 149.810 | 150.390 | 0.580 | 255 | 25 | 9.300  | 328925 |
| 1048135 | 362848 | 11     | 6 | 62 | 4 | 15 | 71.020  | 71.840  | 0.820 | 175 | 0  | 22.600 |        |
| 1048135 | 362848 | 11     | 6 | 62 | 4 | 15 | 82.390  | 82.970  | 0.580 | 190 | 20 | 22.600 |        |
| 1048135 | 362848 | 11     | 6 | 62 | 4 | 15 | 86.690  | 86.840  | 0.150 | 200 | 30 | 22.600 | 328933 |
| 1048136 | 362855 | 75-11C | 6 | 62 | 4 | 15 | 70.260  | 71.350  | 1.090 | 175 | 0  | 22.900 |        |
| 1048136 | 362855 | 75-11C | 6 | 62 | 4 | 15 | 81.810  | 82.570  | 0.760 | 190 | 25 | 22.900 |        |
| 1048138 | 362897 | 75-13C | 6 | 62 | 4 | 15 | 31.790  | 32.460  | 0.670 | 0   | 0  | 0.000  | 328946 |
| 1048139 | 362921 | 000015 | 6 | 62 | 4 | 15 | 43.340  | 44.040  | 0.700 | 0   | 0  | 0.000  | 328948 |
| 1048140 | 362939 | 75-15C | 6 | 62 | 4 | 15 | 43.490  | 44.100  | 0.610 | 0   | 0  | 0.000  | 328950 |
| 1048141 | 363051 | 25     | 6 | 62 | 4 | 15 | 26.550  | 27.100  | 0.550 | 120 | 30 | 1.800  | 328951 |
| 1048141 | 363051 | 25     | 6 | 62 | 4 | 15 | 80.440  | 81.560  | 1.120 | 175 | 0  | 1.800  |        |
| 1048141 | 363051 | 25     | 6 | 62 | 4 | 15 | 90.680  | 91.290  | 0.610 | 190 | 20 | 1.800  | 328958 |
| 1048142 | 363069 | 75-25C | 6 | 62 | 4 | 15 | 26.150  | 26.790  | 0.640 | 0   | 0  | 0.000  |        |
| 1048143 | 363218 | 75-37  | 6 | 62 | 4 | 15 | 29.720  | 30.330  | 0.610 | 120 | 25 | 14.800 | 328961 |
| 1048143 | 363218 | 75-37  | 6 | 62 | 4 | 15 | 85.650  | 86.750  | 1.100 | 175 | 0  | 14.800 |        |
| 1048143 | 363218 | 75-37  | 6 | 62 | 4 | 15 | 94.850  | 95.460  | 0.610 | 190 | 30 | 14.800 |        |



|         |        |        |   |    |   |    |         |         |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|---------|---------|-------|-----|----|--------|--------|
| 1048143 | 363218 | 75-37  | 6 | 62 | 4 | 15 | 98.660  | 99.150  | 0.490 | 200 | 35 | 14.800 | 328971 |
| 1048143 | 363218 | 75-37  | 6 | 62 | 4 | 15 | 110.700 | 112.410 | 1.710 | 225 | 25 | 14.800 |        |
| 1048144 | 362905 | 000014 | 6 | 62 | 4 | 16 | 73.210  | 73.850  | 0.640 | 0   | 0  | 0.000  |        |
| 1048146 | 362947 | 000016 | 6 | 62 | 4 | 16 | 34.380  | 34.900  | 0.520 | 0   | 0  | 0.000  | 329000 |
| 1048146 | 362947 | 000016 | 6 | 62 | 4 | 16 | 46.790  | 48.520  | 1.730 | 0   | 0  | 0.000  |        |
| 1048149 | 363085 | 27C    | 6 | 62 | 4 | 17 | 4.570   | 5.490   | 0.920 | 0   | 0  | 0.000  | 329012 |
| 1048149 | 363085 | 27C    | 6 | 62 | 4 | 17 | 10.670  | 13.720  | 3.050 | 0   | 0  | 0.000  | 329013 |
| 1048149 | 363085 | 27C    | 6 | 62 | 4 | 17 | 41.150  | 42.670  | 1.520 | 0   | 0  | 0.000  | 329014 |
| 1048150 | 363093 | 000027 | 6 | 62 | 4 | 17 | 5.330   | 6.160   | 0.830 | 0   | 0  | 0.000  | 329016 |
| 1048150 | 363093 | 000027 | 6 | 62 | 4 | 17 | 10.360  | 11.420  | 1.060 | 0   | 0  | 0.000  |        |
| 1048150 | 363093 | 000027 | 6 | 62 | 4 | 17 | 11.890  | 13.100  | 1.210 | 0   | 0  | 0.000  |        |
| 1048150 | 363093 | 000027 | 6 | 62 | 4 | 17 | 41.450  | 42.100  | 0.650 | 0   | 0  | 0.000  |        |
| 1048151 | 363366 | 75-54  | 6 | 62 | 4 | 17 | 34.140  | 35.170  | 1.030 | 223 | 0  | 12.200 |        |
| 1048151 | 363366 | 75-54  | 6 | 62 | 4 | 17 | 35.750  | 36.850  | 1.100 | 225 | 0  | 12.200 |        |
| 1048151 | 363366 | 75-54  | 6 | 62 | 4 | 17 | 66.350  | 66.930  | 0.580 | 240 | 15 | 12.200 | 329037 |
| 1048154 | 363077 | 000026 | 6 | 62 | 4 | 20 | 12.950  | 13.560  | 0.610 | 0   | 0  | 0.000  | 329041 |
| 1048155 | 363119 | 30C    | 6 | 62 | 4 | 20 | 39.160  | 39.830  | 0.670 | 0   | 0  | 19.800 |        |
| 1048156 | 362970 | 18     | 6 | 62 | 4 | 21 | 3.170   | 3.690   | 0.520 | 180 | 45 | 2.400  | 329051 |
| 1048156 | 362970 | 18     | 6 | 62 | 4 | 21 | 16.460  | 17.250  | 0.790 | 190 | 25 | 2.400  | 329052 |
| 1048156 | 362970 | 18     | 6 | 62 | 4 | 21 | 33.250  | 34.840  | 1.590 | 225 | 0  | 2.400  |        |
| 1048156 | 362970 | 18     | 6 | 62 | 4 | 21 | 80.040  | 80.560  | 0.520 | 255 | 25 | 2.400  | 329077 |
| 1048157 | 363010 | 22     | 6 | 62 | 4 | 21 | 3.600   | 4.270   | 0.670 | 180 | 40 | 3.500  | 329078 |
| 1048157 | 363010 | 22     | 6 | 62 | 4 | 21 | 17.250  | 18.010  | 0.760 | 190 | 20 | 3.500  | 329079 |
| 1048157 | 363010 | 22     | 6 | 62 | 4 | 21 | 32.490  | 34.080  | 1.590 | 225 | 25 | 3.500  |        |
| 1048157 | 363010 | 22     | 6 | 62 | 4 | 21 | 54.770  | 55.350  | 0.580 | 240 | 20 | 3.500  | 329098 |
| 1048157 | 363010 | 22     | 6 | 62 | 4 | 21 | 76.050  | 76.540  | 0.490 | 255 | 25 | 3.500  | 329100 |
| 1048158 | 363028 | 22C    | 6 | 62 | 4 | 21 | 32.310  | 35.050  | 2.740 | 225 | 0  | 3.000  | 329101 |
| 1048158 | 363028 | 22C    | 6 | 62 | 4 | 21 | 54.560  | 55.780  | 1.220 | 240 | 0  | 3.000  | 329102 |
| 1048158 | 363028 | 22C    | 6 | 62 | 4 | 21 | 75.590  | 76.500  | 0.910 | 255 | 0  | 3.000  | 329103 |
| 1048159 | 363101 | 29C    | 6 | 62 | 4 | 21 | 16.550  | 17.160  | 0.610 | 190 | 20 | 1.500  | 329106 |
| 1048159 | 363101 | 29C    | 6 | 62 | 4 | 21 | 33.160  | 35.020  | 1.860 | 225 | 20 | 1.500  |        |
| 1048160 | 363150 | 75-33  | 6 | 62 | 4 | 22 | 51.660  | 52.330  | 0.670 | 120 | 15 | 6.100  | 329120 |
| 1048160 | 363150 | 75-33  | 6 | 62 | 4 | 22 | 95.620  | 96.900  | 1.280 | 175 | 0  | 6.100  |        |
| 1048160 | 363150 | 75-33  | 6 | 62 | 4 | 22 | 107.440 | 108.110 | 0.670 | 190 | 15 | 6.100  | 329132 |
| 1048160 | 363150 | 75-33  | 6 | 62 | 4 | 22 | 108.750 | 109.270 | 0.520 | 195 | 35 | 6.100  | 329135 |
| 1048162 | 363176 | 75-35  | 6 | 62 | 4 | 22 | 32.640  | 33.160  | 0.520 | 120 | 25 | 3.000  | 329137 |
| 1048162 | 363176 | 75-35  | 6 | 62 | 4 | 22 | 79.740  | 80.860  | 1.120 | 175 | 0  | 3.000  |        |
| 1048162 | 363176 | 75-35  | 6 | 62 | 4 | 22 | 91.810  | 92.540  | 0.730 | 190 | 30 | 3.000  | 329151 |
| 1048163 | 363184 | 75-35C | 6 | 62 | 4 | 22 | 32.310  | 32.890  | 0.580 | 120 | 20 | 3.000  | 329158 |
| 1048163 | 363184 | 75-35C | 6 | 62 | 4 | 22 | 80.380  | 81.560  | 1.180 | 175 | 30 | 3.000  |        |
| 1048163 | 363184 | 75-35C | 6 | 62 | 4 | 22 | 92.080  | 92.690  | 0.610 | 190 | 20 | 3.000  | 329171 |
| 1048163 | 363184 | 75-35C | 6 | 62 | 4 | 22 | 111.560 | 112.040 | 0.480 | 223 | 30 | 3.000  | 329177 |
| 1048163 | 363184 | 75-35C | 6 | 62 | 4 | 22 | 112.750 | 114.450 | 1.700 | 225 | 30 | 3.000  |        |
| 1048164 | 363192 | 75-36  | 6 | 62 | 4 | 22 | 39.960  | 40.480  | 0.520 | 190 | 20 | 39.900 | 329196 |
| 1048164 | 363192 | 75-36  | 6 | 62 | 4 | 22 | 54.350  | 54.770  | 0.420 | 223 | 20 | 39.900 | 329199 |
| 1048164 | 363192 | 75-36  | 6 | 62 | 4 | 22 | 55.500  | 57.180  | 1.680 | 225 | 0  | 19.900 |        |

|         |        |        |   |    |   |    |         |         |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|---------|---------|-------|-----|----|--------|--------|
| 1048164 | 363192 | 75-36  | 6 | 62 | 4 | 22 | 80.220  | 80.710  | 0.490 | 240 | 20 | 39.900 | 329212 |
| 1048165 | 363200 | 75-36C | 6 | 62 | 4 | 22 | 40.360  | 41.000  | 0.640 | 190 | 25 | 39.800 | 329214 |
| 1048165 | 363200 | 75-36C | 6 | 62 | 4 | 22 | 54.620  | 55.020  | 0.400 | 223 | 35 | 39.800 | 329217 |
| 1048165 | 363200 | 75-36C | 6 | 62 | 4 | 22 | 55.630  | 57.360  | 1.730 | 225 | 0  | 39.800 | 329229 |
| 1048165 | 363200 | 75-36C | 6 | 62 | 4 | 22 | 80.250  | 80.800  | 0.550 | 240 | 20 | 39.800 | 329464 |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 61.300  | 61.780  | 0.480 | 175 | 20 | 3.700  | 329470 |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 74.280  | 75.040  | 0.760 | 190 | 20 | 3.700  | 329476 |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 75.440  | 76.050  | 0.610 | 195 | 0  | 3.700  |        |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 92.780  | 93.180  | 0.400 | 223 | 15 | 3.700  |        |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 93.790  | 95.460  | 1.670 | 225 | 25 | 3.700  |        |
| 1048176 | 363135 | 75-32  | 6 | 62 | 4 | 27 | 114.570 | 115.030 | 0.460 | 240 | 0  | 3.700  |        |
| 1048177 | 363143 | 75-32C | 6 | 62 | 4 | 27 | 74.070  | 75.440  | 1.370 | 190 | 0  | 3.700  |        |
| 1048177 | 363143 | 75-32C | 6 | 62 | 4 | 27 | 94.370  | 95.980  | 1.610 | 225 | 0  | 3.700  |        |
| 1048182 | 513499 | 83-72  | 6 | 62 | 5 | 6  | 38.000  | 38.500  | 0.500 | 160 | 20 | 23.000 | 329585 |
| 1048182 | 513499 | 83-72  | 6 | 62 | 5 | 6  | 38.900  | 39.700  | 0.800 | 162 | 15 | 23.000 | 329587 |
| 1048183 | 513507 | 83-72C | 6 | 62 | 5 | 6  | 38.200  | 38.600  | 0.400 | 160 | 20 | 0.000  | 329608 |
| 1048183 | 513507 | 83-72C | 6 | 62 | 5 | 6  | 39.000  | 39.800  | 0.800 | 162 | 10 | 0.000  | 329610 |
| 1048184 | 513481 | 83-71  | 6 | 62 | 5 | 18 | 64.800  | 65.600  | 0.800 | 162 | 10 | 32.000 | 329622 |
| 1048184 | 513481 | 83-71  | 6 | 62 | 5 | 18 | 94.500  | 95.000  | 0.500 | 200 | 20 | 32.000 | 329629 |
| 1048184 | 513481 | 83-71  | 6 | 62 | 5 | 18 | 95.400  | 95.800  | 0.400 | 202 | 20 | 32.000 | 329631 |
| 1048185 | 513770 | 83-12  | 6 | 62 | 5 | 20 | 21.900  | 83.100  | 1.200 | 162 | 15 | 4.800  | 329647 |
| 1048185 | 513770 | 83-12  | 6 | 62 | 5 | 20 | 108.700 | 109.100 | 0.400 | 200 | 20 | 4.800  | 329652 |
| 1048186 | 513788 | 83-14  | 6 | 62 | 5 | 22 | 72.600  | 73.200  | 0.600 | 155 | 25 | 4.400  | 329664 |
| 1048186 | 513788 | 83-14  | 6 | 62 | 5 | 22 | 78.600  | 79.400  | 0.800 | 162 | 20 | 4.400  | 329666 |
| 1048187 | 513762 | 83-10  | 6 | 62 | 5 | 31 | 70.600  | 71.200  | 0.600 | 162 | 20 | 5.000  | 329685 |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 76.800  | 77.400  | 0.600 | 160 | 20 | 28.000 | 329698 |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 77.800  | 78.400  | 0.600 | 162 | 10 | 28.000 | 329700 |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 81.200  | 81.600  | 0.400 | 175 | 10 | 28.000 | 329702 |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 104.600 | 105.200 | 0.600 | 195 | 25 | 28.000 |        |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 105.900 | 106.400 | 0.500 | 200 | 15 | 28.000 |        |
| 1048189 | 513366 | 83-51A | 6 | 62 | 6 | 8  | 110.200 | 110.800 | 0.600 | 208 | 25 | 28.000 | 329710 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 5 | 10 | 49.400  | 49.900  | 0.500 | 155 | 25 | 3.200  | 329722 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 61.100  | 61.600  | 0.500 | 160 | 15 | 3.200  | 329724 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 62.000  | 62.800  | 0.800 | 162 | 10 | 3.200  | 329726 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 74.400  | 74.900  | 0.500 | 175 | 10 | 3.200  | 329730 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 89.600  | 90.000  | 0.400 | 195 | 25 | 3.200  | 329734 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 90.500  | 91.000  | 0.500 | 200 | 15 | 3.200  | 329736 |
| 1048190 | 513432 | 83-63  | 6 | 62 | 6 | 10 | 91.300  | 91.800  | 0.500 | 202 | 25 | 3.200  | 329738 |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 49.600  | 50.100  | 0.500 | 155 | 25 | 3.000  | 329750 |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 60.900  | 61.400  | 0.500 | 160 | 15 | 3.000  | 329752 |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 62.700  | 62.700  | 0.900 | 162 | 10 | 3.000  | 329754 |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 74.500  | 75.000  | 0.500 | 175 | 10 | 3.000  | 329758 |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 90.200  | 91.000  | 0.800 | 200 | 0  | 3.000  |        |
| 1048191 | 513440 | 8363C1 | 6 | 62 | 6 | 10 | 91.000  | 91.400  | 0.400 | 202 | 25 | 3.000  | 329766 |
| 1048192 | 513457 | 8363C2 | 6 | 62 | 6 | 10 | 49.100  | 49.600  | 0.500 | 155 | 25 | 0.000  | 329775 |
| 1048192 | 513457 | 8363C2 | 6 | 62 | 6 | 10 | 60.300  | 60.800  | 0.500 | 160 | 15 | 0.000  | 329777 |
| 1048192 | 513457 | 8363C2 | 6 | 62 | 6 | 10 | 61.200  | 62.000  | 0.800 | 162 | 10 | 0.000  | 329779 |

|         |        |        |   |    |      |         |         |       |     |    |       |        |
|---------|--------|--------|---|----|------|---------|---------|-------|-----|----|-------|--------|
| 1048193 | 513473 | 83-69  | 6 | 62 | 6 13 | 57.600  | 58.200  | 0.600 | 155 | 30 | 1.000 | 329787 |
| 1048193 | 513473 | 83-69  | 6 | 62 | 6 13 | 62.000  | 62.900  | 0.900 | 160 | 20 | 1.000 | 329789 |
| 1048193 | 513473 | 83-69  | 6 | 62 | 6 13 | 63.300  | 64.200  | 0.900 | 162 | 15 | 1.000 | 329791 |
| 1048193 | 513473 | 83-69  | 6 | 62 | 6 13 | 98.400  | 99.800  | 1.400 | 200 | 25 | 1.000 | 329795 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 38.800  | 39.300  | 0.500 | 155 | 30 | 4.500 | 329800 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 41.600  | 42.300  | 0.700 | 160 | 15 | 4.500 | 329802 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 42.700  | 43.500  | 0.800 | 162 | 10 | 4.500 | 329804 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 47.600  | 48.100  | 0.500 | 175 | 5  | 4.500 | 329808 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 56.000  | 56.500  | 0.500 | 180 | 35 | 4.500 | 329810 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 64.000  | 64.400  | 0.400 | 195 | 20 | 4.500 | 329813 |
| 1048194 | 513424 | 83-62  | 6 | 62 | 5 15 | 64.900  | 66.100  | 1.200 | 200 | 25 | 4.500 | 329815 |
| 1048195 | 513333 | 83-50  | 6 | 62 | 6 18 | 49.000  | 49.600  | 0.600 | 160 | 15 | 7.600 | 329829 |
| 1048195 | 513333 | 83-50  | 6 | 62 | 6 18 | 50.000  | 50.800  | 0.800 | 162 | 10 | 7.600 | 329831 |
| 1048195 | 513333 | 83-50  | 6 | 62 | 6 18 | 81.600  | 82.300  | 0.700 | 175 | 5  | 7.600 | 329832 |
| 1048195 | 513333 | 83-50  | 6 | 62 | 6 18 | 88.800  | 89.500  | 0.700 | 195 | 25 | 7.600 | 329834 |
| 1048195 | 513333 | 83-50  | 6 | 62 | 6 18 | 90.000  | 90.400  | 0.400 | 200 | 10 | 7.600 | 329836 |
| 1048196 | 513341 | 83-50C | 6 | 62 | 5 18 | 49.000  | 49.600  | 0.600 | 160 | 15 | 9.500 | 329852 |
| 1048196 | 513341 | 83-50C | 6 | 62 | 5 18 | 50.000  | 50.800  | 0.800 | 162 | 10 | 9.500 | 329854 |
| 1048196 | 513341 | 83-50C | 6 | 62 | 5 18 | 82.000  | 82.700  | 0.700 | 175 | 5  | 9.500 | 329855 |
| 1048196 | 513341 | 83-50C | 6 | 62 | 5 18 | 89.800  | 90.400  | 0.600 | 195 | 25 | 9.500 | 329857 |
| 1048196 | 513341 | 83-50C | 6 | 62 | 5 18 | 91.000  | 91.500  | 0.500 | 200 | 10 | 9.500 | 329859 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 10.200  | 10.700  | 0.500 | 125 | 25 | 3.200 | 329862 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 39.900  | 40.400  | 0.500 | 160 | 15 | 3.200 | 329871 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 40.800  | 41.600  | 0.800 | 162 | 15 | 3.200 | 329873 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 67.000  | 67.600  | 0.600 | 195 | 20 | 3.200 | 329879 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 68.100  | 69.200  | 1.100 | 200 | 25 | 3.200 | 329881 |
| 1048197 | 513325 | 83-48  | 6 | 62 | 5 19 | 119.800 | 120.500 | 0.700 | 225 | 25 | 3.200 | 329887 |
| 1048198 | 513416 | 83-60  | 6 | 62 | 5 28 | 21.500  | 22.100  | 0.600 | 160 | 20 | 3.500 | 329892 |
| 1048198 | 513416 | 83-60  | 6 | 62 | 5 28 | 22.500  | 23.600  | 1.100 | 162 | 15 | 3.500 | 329894 |
| 1048198 | 513416 | 83-60  | 6 | 62 | 5 28 | 33.500  | 34.300  | 0.800 | 175 | 5  | 3.500 | 329895 |
| 1048198 | 513416 | 83-60  | 6 | 62 | 5 28 | 52.600  | 53.100  | 0.500 | 195 | 20 | 3.500 | 329898 |
| 1048198 | 513416 | 83-60  | 6 | 62 | 5 28 | 53.600  | 54.700  | 1.100 | 200 | 25 | 3.500 | 329900 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 16.700  | 17.600  | 0.900 | 160 | 15 | 5.500 | 329909 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 18.000  | 19.000  | 1.000 | 162 | 10 | 5.500 | 329911 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 21.900  | 22.700  | 0.800 | 175 | 5  | 5.500 | 329913 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 42.400  | 43.000  | 0.600 | 195 | 25 | 5.500 | 329915 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 43.400  | 44.600  | 1.200 | 200 | 25 | 5.500 | 329917 |
| 1048199 | 513465 | 83-66  | 6 | 62 | 5 28 | 58.400  | 58.900  | 0.500 | 225 | 25 | 5.500 | 329921 |
| 1048200 | 513317 | 83-46  | 6 | 62 | 5 31 | 49.000  | 49.500  | 0.500 | 160 | 15 | 0.000 | 329970 |
| 1048200 | 513317 | 83-46  | 6 | 62 | 5 31 | 49.900  | 50.600  | 0.700 | 162 | 15 | 0.000 | 329972 |
| 1048200 | 513317 | 83-46  | 6 | 62 | 5 31 | 69.200  | 69.700  | 0.500 | 195 | 25 | 0.000 | 329983 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 67.700  | 68.400  | 0.700 | 160 | 15 | 3.000 | 330002 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 68.800  | 69.500  | 0.700 | 162 | 10 | 3.000 | 330004 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 84.800  | 85.400  | 0.600 | 195 | 25 | 3.000 | 330012 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 85.700  | 86.500  | 0.800 | 200 | 0  | 3.000 | 330016 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 86.500  | 86.800  | 0.300 | 202 | 25 | 3.000 | 330020 |
| 1048201 | 513408 | 83-59  | 6 | 62 | 6 32 | 131.000 | 131.600 | 0.600 | 225 | 20 | 3.000 | 330036 |
| 1048203 | 513267 | 83-37  | 6 | 62 | 7 9  | 17.000  | 17.600  | 0.600 | 162 | 15 | 1.000 | 330051 |
| 1048204 | 513291 | 83-43  | 6 | 62 | 7 10 | 11.200  | 11.800  | 0.600 | 160 | 10 | 4.800 | 330053 |
| 1048204 | 513291 | 83-43  | 6 | 62 | 7 10 | 12.100  | 12.900  | 0.800 | 162 | 15 | 4.800 | 330058 |
| 1048204 | 513291 | 83-43  | 6 | 62 | 7 10 | 43.200  | 43.900  | 0.700 | 195 | 25 | 4.800 | 330058 |

|         |        |        |   |    |   |    |        |        |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|--------|--------|-------|-----|----|--------|--------|
| 1048205 | 513309 | 83-43C | 6 | 62 | 7 | 10 | 12.140 | 13.230 | 1.090 | 162 | 15 | 0.000  | 330069 |
| 1048205 | 513309 | 83-43C | 6 | 62 | 7 | 10 | 43.200 | 44.000 | 0.800 | 195 | 25 | 0.000  | 330076 |
| 1048205 | 513309 | 83-43C | 6 | 62 | 7 | 10 | 44.800 | 45.300 | 0.500 | 200 | 25 | 0.000  | 330078 |
| 1048206 | 513556 | 82-5   | 6 | 62 | 7 | 16 | 15.800 | 16.400 | 0.600 | 160 | 25 | 5.000  | 330086 |
| 1048206 | 513556 | 82-5   | 6 | 62 | 7 | 16 | 16.800 | 17.500 | 0.700 | 162 | 20 | 5.000  | 330088 |
| 1048206 | 513556 | 82-5   | 6 | 62 | 7 | 16 | 39.400 | 40.100 | 0.700 | 195 | 20 | 5.000  | 330091 |
| 1048208 | 513523 | 82-2   | 6 | 62 | 7 | 27 | 22.200 | 23.200 | 1.000 | 195 | 25 | 0.600  | 330150 |
| 1048208 | 513523 | 82-2   | 6 | 62 | 7 | 27 | 23.700 | 24.300 | 0.600 | 200 | 20 | 0.600  | 330152 |
| 1048208 | 513523 | 82-2   | 6 | 62 | 7 | 27 | 24.700 | 25.200 | 0.500 | 202 | 25 | 0.600  | 330154 |
| 1048246 | 363580 | 000084 | 6 | 63 | 4 | 16 | 9.450  | 10.390 | 0.940 | 0   | 0  | 0.000  | 330452 |
| 1048248 | 363564 | 000080 | 6 | 63 | 4 | 19 | 7.620  | 8.530  | 0.910 | 0   | 0  | 0.000  | 330455 |
| 1048248 | 363564 | 000080 | 6 | 63 | 4 | 19 | 34.140 | 34.750 | 0.610 | 0   | 0  | 0.000  | 330456 |
| 1048249 | 363713 | 007801 | 6 | 63 | 4 | 19 | 11.900 | 12.590 | 0.690 | 0   | 0  | 7.000  | 330457 |
| 1048249 | 363713 | 007801 | 6 | 63 | 4 | 19 | 37.420 | 38.490 | 1.070 | 0   | 0  | 7.000  |        |
| 1048250 | 363655 | 007817 | 6 | 63 | 4 | 20 | 29.680 | 30.560 | 0.880 | 0   | 0  | 7.000  |        |
| 1048250 | 363655 | 007817 | 6 | 63 | 4 | 20 | 53.200 | 54.140 | 0.940 | 0   | 0  | 7.000  | 330467 |
| 1048250 | 363655 | 007817 | 6 | 63 | 4 | 20 | 57.190 | 57.880 | 0.590 | 0   | 0  | 7.000  |        |
| 1048251 | 363572 | 000083 | 6 | 63 | 4 | 21 | 1.830  | 2.440  | 0.610 | 0   | 0  | 0.000  | 330482 |
| 1048251 | 363572 | 000083 | 6 | 63 | 4 | 21 | 29.260 | 30.300 | 1.040 | 0   | 0  | 0.000  |        |
| 1048252 | 363689 | 007813 | 6 | 63 | 4 | 21 | 1.800  | 2.680  | 0.880 | 0   | 0  | 6.000  | 330485 |
| 1048252 | 363689 | 007813 | 6 | 63 | 4 | 21 | 26.970 | 28.060 | 1.090 | 0   | 0  | 6.000  |        |
| 1048252 | 363689 | 007813 | 6 | 63 | 4 | 21 | 46.860 | 47.680 | 0.820 | 0   | 0  | 6.000  | 330490 |
| 1048252 | 363689 | 007813 | 6 | 63 | 4 | 21 | 52.300 | 53.150 | 0.850 | 0   | 0  | 6.000  |        |
| 1048255 | 363705 | 007802 | 6 | 63 | 4 | 27 | 27.590 | 29.380 | 1.790 | 0   | 0  | 14.000 |        |
| 1048255 | 363705 | 007802 | 6 | 63 | 4 | 27 | 30.820 | 31.670 | 0.850 | 0   | 0  | 14.000 |        |
| 1048258 | 363606 | 000087 | 6 | 63 | 4 | 34 | 8.600  | 9.140  | 0.540 | 0   | 0  | 0.000  | 330527 |
| 1048258 | 363606 | 000087 | 6 | 63 | 4 | 34 | 13.590 | 14.540 | 0.950 | 0   | 0  | 0.000  |        |
| 1048258 | 363606 | 000087 | 6 | 63 | 4 | 34 | 35.780 | 36.640 | 0.860 | 0   | 0  | 0.000  |        |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 24.790 | 26.020 | 1.230 | 0   | 0  | 6.000  |        |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 49.910 | 51.530 | 1.620 | 0   | 0  | 6.000  | 330539 |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 52.450 | 53.080 | 0.630 | 0   | 0  | 6.000  |        |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 69.100 | 70.380 | 1.280 | 0   | 0  | 6.000  | 330544 |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 69.530 | 70.380 | 0.850 | 0   | 0  | 6.000  | 330546 |
| 1048259 | 363697 | 007812 | 6 | 63 | 4 | 34 | 73.190 | 73.800 | 0.610 | 0   | 0  | 6.000  |        |
| 1048261 | 363721 | 000071 | 6 | 63 | 5 | 7  | 21.950 | 22.400 | 0.450 | 0   | 0  | 0.000  | 330549 |
| 1048262 | 513796 | 83-21  | 6 | 63 | 5 | 9  | 40.000 | 40.800 | 0.800 | 140 | 20 | 25.000 | 330550 |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 9.450  | 10.060 | 0.610 | 0   | 0  | 4.000  | 330561 |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 34.290 | 35.880 | 1.590 | 0   | 0  | 4.000  |        |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 37.100 | 38.270 | 1.170 | 0   | 0  | 4.000  |        |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 55.490 | 56.200 | 0.710 | 0   | 0  | 4.000  |        |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 63.710 | 64.120 | 0.410 | 0   | 0  | 4.000  | 330579 |
| 1048263 | 363788 | 007814 | 6 | 63 | 5 | 13 | 65.410 | 66.160 | 0.750 | 0   | 0  | 4.000  |        |
| 1048264 | 395301 | 2      | 6 | 63 | 5 | 18 | 58.900 | 59.700 | 0.800 | 140 | 25 | 3.000  | 330587 |
| 1048265 | 395400 | 13     | 6 | 63 | 5 | 18 | 22.500 | 23.500 | 1.000 | 140 | 25 | 15.000 | 330601 |



|         |        |        |   |    |   |    |        |        |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|--------|--------|-------|-----|----|--------|--------|
| 1048266 | 395418 | 13A    | 6 | 63 | 5 | 18 | 23.000 | 23.900 | 0.900 | 140 | 15 | 8.000  | 330616 |
| 1048269 | 363762 | 007819 | 6 | 63 | 5 | 22 | 34.510 | 35.640 | 1.130 | 0   | 0  | 6.000  |        |
| 1048269 | 363762 | 007819 | 6 | 63 | 5 | 22 | 37.120 | 37.710 | 0.590 | 0   | 0  | 6.000  |        |
| 1048269 | 363762 | 007819 | 6 | 63 | 5 | 22 | 57.090 | 57.580 | 0.490 | 0   | 0  | 6.000  | 330650 |
| 1048270 | 363770 | 007818 | 6 | 63 | 5 | 24 | 30.590 | 31.890 | 1.300 | 0   | 0  | 6.000  |        |
| 1048270 | 363770 | 007818 | 6 | 63 | 5 | 24 | 48.300 | 48.700 | 0.400 | 0   | 0  | 6.000  | 330663 |
| 1048270 | 363770 | 007818 | 6 | 63 | 5 | 24 | 51.220 | 51.770 | 0.550 | 0   | 0  | 6.000  | 330664 |
| 1048270 | 363770 | 007818 | 6 | 63 | 5 | 24 | 52.200 | 52.910 | 0.710 | 0   | 0  | 6.000  |        |
| 1048270 | 363770 | 007818 | 6 | 63 | 5 | 24 | 63.420 | 63.910 | 0.490 | 0   | 0  | 6.000  | 330669 |
| 1048271 | 395293 | 000001 | 6 | 63 | 5 | 31 | 31.400 | 32.200 | 0.800 | 0   | 30 | 19.000 | 330671 |
| 1048274 | 513382 | 83-57  | 6 | 63 | 6 | 4  | 33.900 | 34.600 | 0.700 | 162 | 15 | 7.000  | 330679 |
| 1048274 | 513382 | 83-57  | 6 | 63 | 6 | 4  | 50.700 | 51.400 | 0.700 | 200 | 0  | 7.000  |        |
| 1048274 | 513382 | 83-57  | 6 | 63 | 6 | 4  | 51.400 | 51.800 | 0.400 | 202 | 25 | 7.000  | 330692 |
| 1048275 | 513390 | 83-57C | 6 | 63 | 6 | 4  | 33.700 | 34.500 | 0.800 | 162 | 15 | 12.000 | 330698 |
| 1048275 | 513390 | 83-57C | 6 | 63 | 6 | 4  | 50.600 | 51.300 | 0.700 | 200 | 0  | 12.000 |        |
| 1048275 | 513390 | 83-57C | 6 | 63 | 6 | 4  | 51.300 | 51.600 | 0.300 | 202 | 25 | 12.000 | 330711 |
| 1048276 | 395335 | 000006 | 6 | 63 | 6 | 13 | 22.500 | 23.000 | 0.500 | 0   | 40 | 6.000  | 330744 |
| 1048284 | 395350 | 000008 | 6 | 63 | 6 | 30 | 9.400  | 10.300 | 0.900 | 0   | 35 | 10.000 | 330748 |
| 1048286 | 513564 | 82-6   | 6 | 63 | 7 | 1  | 45.400 | 46.000 | 0.600 | 160 | 15 | 7.000  | 330753 |
| 1048286 | 513564 | 82-6   | 6 | 63 | 7 | 1  | 46.300 | 47.100 | 0.800 | 162 | 10 | 7.000  | 330755 |
| 1048286 | 513564 | 82-6   | 6 | 63 | 7 | 1  | 56.800 | 57.500 | 0.700 | 195 | 20 | 7.000  |        |
| 1048286 | 513564 | 82-6   | 6 | 63 | 7 | 1  | 58.000 | 58.400 | 0.400 | 200 | 20 | 7.000  |        |
| 1048287 | 513572 | 82-6CH | 6 | 63 | 7 | 1  | 45.500 | 46.000 | 0.500 | 160 | 15 | 3.300  | 330778 |
| 1048287 | 513572 | 82-6CH | 6 | 63 | 7 | 1  | 46.400 | 47.200 | 0.800 | 162 | 10 | 3.300  | 330780 |
| 1048287 | 513572 | 82-6CH | 6 | 63 | 7 | 1  | 56.800 | 57.600 | 0.800 | 195 | 20 | 3.300  | 330791 |
| 1048287 | 513572 | 82-6CH | 6 | 63 | 7 | 1  | 58.100 | 58.600 | 0.500 | 200 | 20 | 3.300  | 330793 |
| 1048288 | 513515 | 82-1   | 6 | 63 | 7 | 4  | 15.000 | 15.900 | 0.900 | 195 | 20 | 3.000  | 330825 |
| 1048288 | 513515 | 82-1   | 6 | 63 | 7 | 4  | 16.600 | 17.400 | 0.800 | 200 | 0  | 3.000  |        |
| 1048295 | 395384 | 000011 | 6 | 63 | 7 | 35 | 49.200 | 49.900 | 0.700 | 0   | 25 | 8.000  | 330839 |
| 1048295 | 395384 | 000011 | 6 | 63 | 7 | 35 | 50.400 | 51.000 | 0.600 | 0   | 25 | 8.000  | 330841 |
| 1050687 | 535856 | 87-102 | 6 | 61 | 7 | 26 | 21.400 | 22.100 | 0.700 | 195 | 20 | 12.000 | 328441 |
| 1050689 | 535732 | 87-85  | 6 | 62 | 6 | 30 | 12.800 | 13.800 | 1.000 | 160 | 0  | 6.000  |        |
| 1050689 | 535732 | 87-85  | 6 | 62 | 6 | 30 | 13.800 | 14.500 | 0.700 | 162 | 10 | 6.000  | 329930 |
| 1050689 | 535732 | 87-85  | 6 | 62 | 6 | 30 | 37.800 | 38.500 | 0.700 | 195 | 20 | 6.000  | 329941 |
| 1050689 | 535732 | 87-85  | 6 | 62 | 6 | 30 | 38.900 | 40.000 | 1.100 | 200 | 25 | 6.000  | 329943 |
| 1050690 | 535740 | 8785CH | 6 | 62 | 6 | 30 | 13.800 | 14.500 | 0.700 | 160 | 0  | 5.000  |        |
| 1050690 | 535740 | 8785CH | 6 | 62 | 6 | 30 | 14.500 | 15.350 | 0.850 | 162 | 10 | 5.000  | 329949 |
| 1050690 | 535740 | 8785CH | 6 | 62 | 6 | 30 | 38.400 | 39.000 | 0.600 | 195 | 20 | 5.000  | 329960 |
| 1050690 | 535740 | 8785CH | 6 | 62 | 6 | 30 | 39.400 | 40.600 | 1.200 | 200 | 25 | 5.000  | 329962 |
| 1050692 | 535823 | 8795CH | 6 | 62 | 7 | 21 | 25.600 | 26.500 | 0.900 | 195 | 20 | 13.000 | 330136 |
| 1050692 | 535823 | 8795CH | 6 | 62 | 7 | 21 | 27.200 | 27.800 | 0.600 | 200 | 20 | 13.000 | 330139 |
| 1050695 | 535799 | 87-90  | 6 | 62 | 7 | 35 | 39.200 | 40.100 | 0.900 | 160 | 15 | 15.000 | 330187 |
| 1050695 | 535799 | 87-90  | 6 | 62 | 7 | 35 | 40.500 | 41.400 | 0.900 | 162 | 10 | 15.000 | 330189 |
| 1050695 | 535799 | 87-90  | 6 | 62 | 7 | 35 | 52.900 | 53.600 | 0.700 | 195 | 15 | 15.000 | 330200 |

|         |        |        |   |    |   |    |        |        |       |     |    |        |        |
|---------|--------|--------|---|----|---|----|--------|--------|-------|-----|----|--------|--------|
| 1050695 | 535799 | 87-90  | 6 | 62 | 7 | 35 | 54,100 | 55,400 | 1,300 | 200 | 25 | 15,000 | 330202 |
| 1050700 | 535757 | 87-87  | 6 | 63 | 6 | 6  | 25,400 | 26,200 | 0,800 | 162 | 15 | 10,800 | 330715 |
| 1050700 | 535757 | 87-87  | 6 | 63 | 6 | 6  | 44,000 | 44,600 | 0,600 | 195 | 20 | 10,800 | 330724 |
| 1050700 | 535757 | 87-87  | 6 | 63 | 6 | 6  | 45,200 | 46,200 | 1,000 | 200 | 25 | 10,800 | 330726 |
| 1050701 | 535765 | 8787CH | 6 | 63 | 6 | 6  | 25,600 | 26,300 | 0,700 | 162 | 15 | 8,000  | 330730 |
| 1050701 | 535765 | 8787CH | 6 | 63 | 6 | 6  | 44,500 | 45,100 | 0,600 | 195 | 20 | 8,000  | 330739 |
| 1050701 | 535765 | 8787CH | 6 | 63 | 6 | 6  | 45,600 | 46,600 | 1,000 | 200 | 25 | 8,000  | 330741 |
| 1050702 | 535773 | 87-88  | 6 | 63 | 7 | 2  | 24,700 | 25,600 | 0,900 | 195 | 15 | 7,000  | 330803 |
| 1050702 | 535773 | 87-88  | 6 | 63 | 7 | 2  | 26,100 | 27,300 | 1,200 | 200 | 25 | 7,000  | 330805 |
| 1050703 | 535781 | 8789CH | 6 | 63 | 7 | 3  | 23,500 | 24,400 | 0,900 | 195 | 20 | 7,000  | 330813 |
| 1050703 | 535781 | 8789CH | 6 | 63 | 7 | 3  | 25,000 | 26,400 | 1,400 | 200 | 25 | 7,000  | 330815 |

Appendix 5. 83L/7 - Alberta Research Council - Coal Exploration Programs in  
the Wapiti Area

During 1966 and 1967, the Research Council of Alberta (RCA) conducted a reconnaissance coal exploration drill program in the Wapiti area. In total, 180 holes were drilled. Geological data, generated from the program, was limited to drillers' and geologists' sample descriptions, with some electrical logs (SP and Resistivity). In general, the electrical logs were of poor resolution.

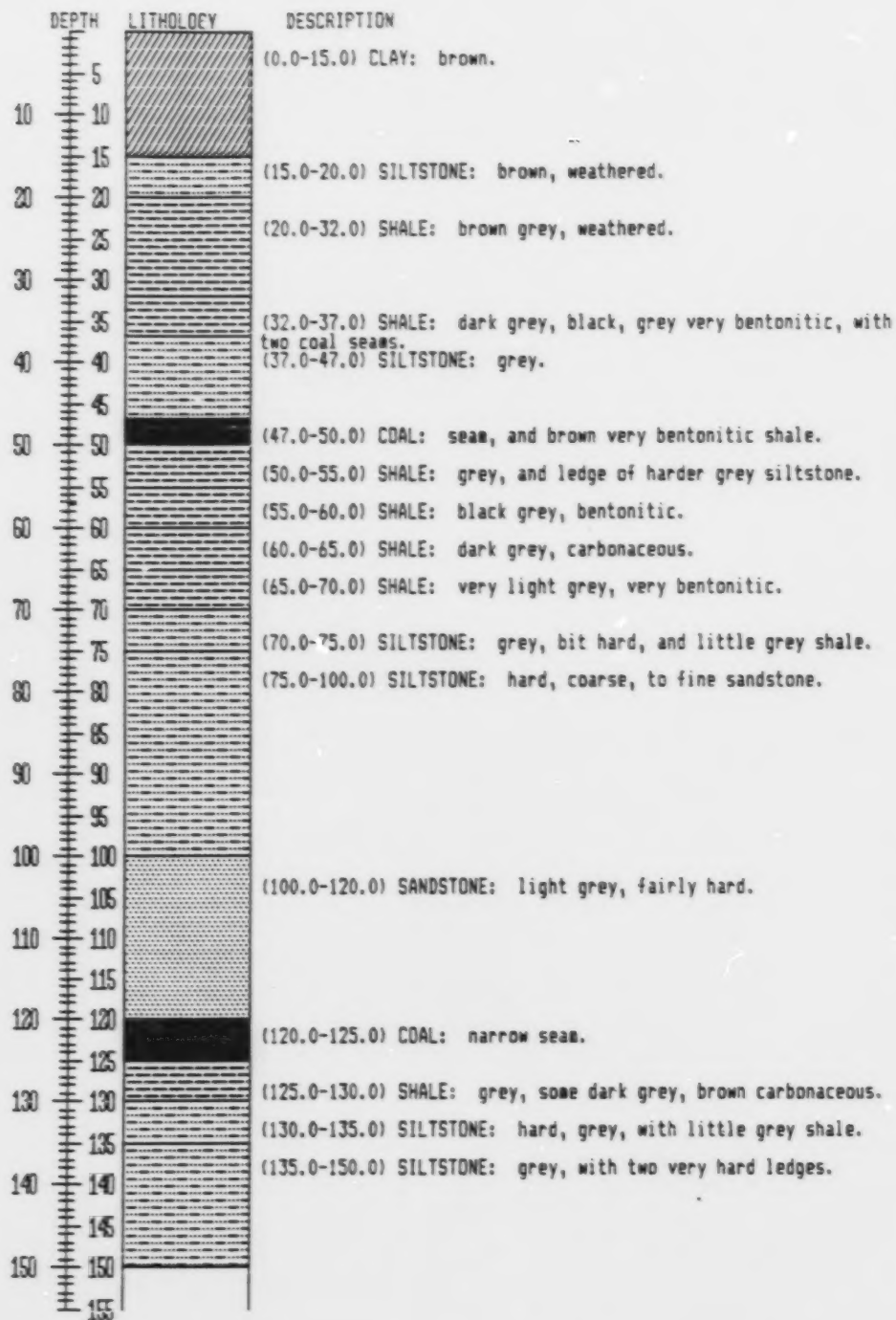
Of the above 180 drillholes, 17 (including 2 'redrilled' sites) were located within the NTS mapsheet 83L/7. Drillhole strip logs, generated from the Logger software package, are available for most drillholes and are contained as part of this Appendix. Strip logs were not generated for the two drillholes, SP82-67 and SP70A-67. Note that elevations, total depths and depth intervals have been presented in Imperial length (feet). Drillhole locations can be derived from the numeric string indicated on the strip log. From left to right, digit(s) position(s)

- o 1 identifies the Meridian
- o 2, 3 and 4 identify the Township
- o 5 and 6 identify the Range
- o 7 and 8 identify the Section
- o 9 and 10 identify the Legal Sub-Division (if recorded).

The coal lithology infilled on the strip log has been biased and tends to 'visually' exaggerate the actual amount of coal present; ie, if the word 'COAL' is part of the lithological description, the strip log indicates the entire interval is 'all-coal'. In reality, the actual amount of coal present may and, usually is, quite insignificant (eg,...'with a few pieces of COAL.')

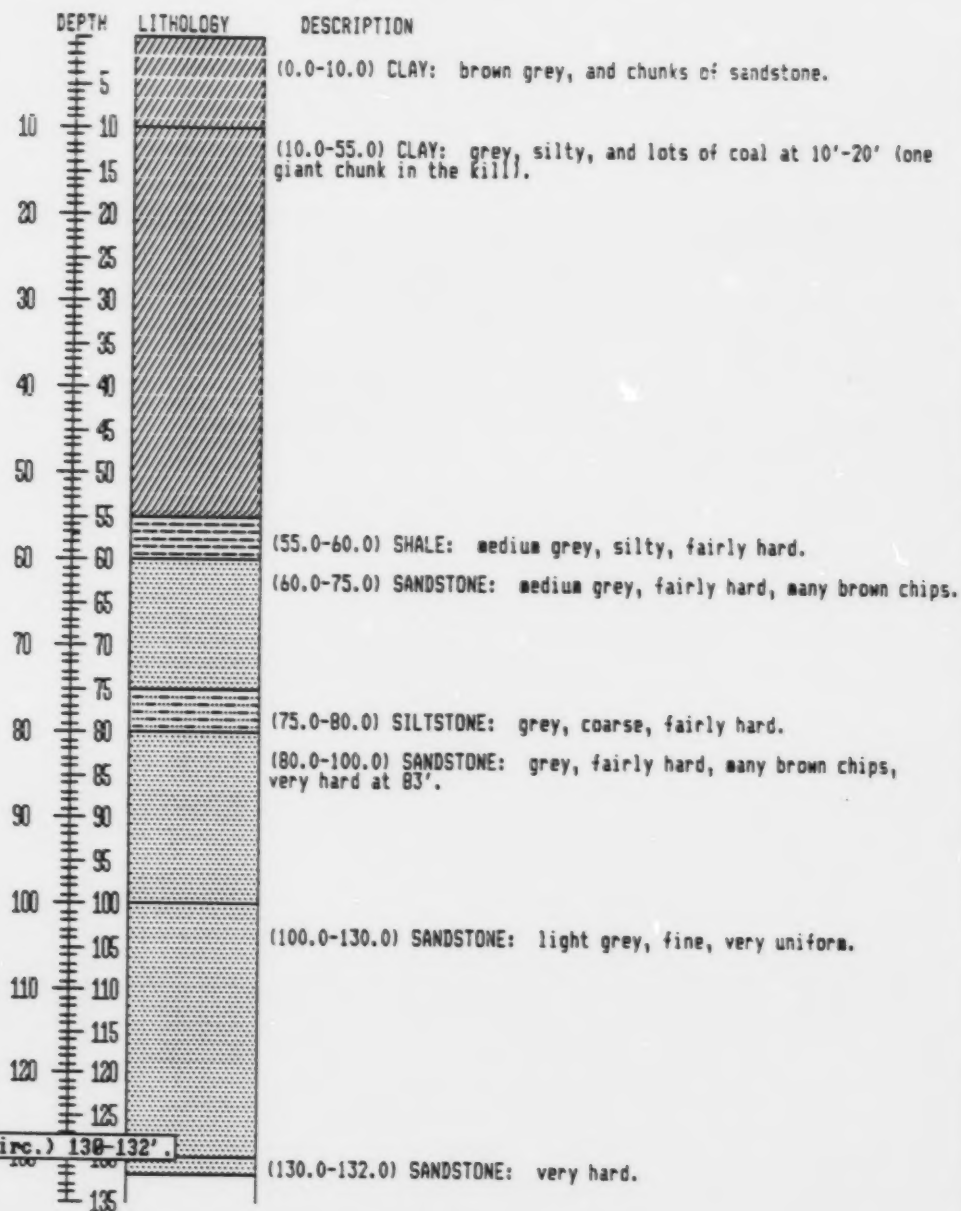
The RCA, in 1977, drilled one additional (coal?) drillhole within the mapsheet area. The drillhole, 1-77, was part of a Grande\_Prairie\_Area drill program.

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP84-67 | 6063041606 | 3205                | 150             |





| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP81-67 | 6063041800 | 3120                | 132             |



| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP80-67 | 6063041900 | 3240                | 150             |

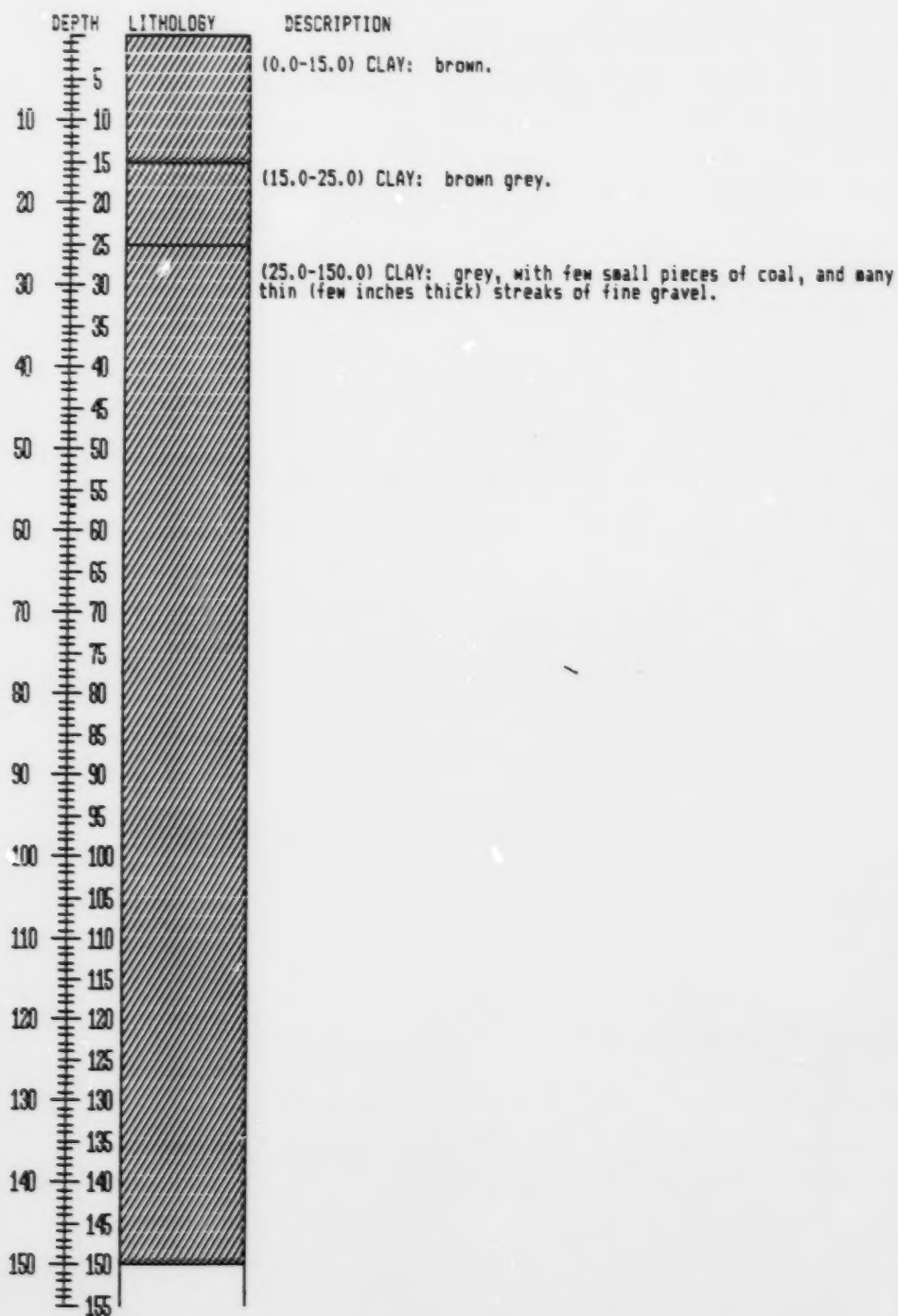
| DEPTH | LITHOLOGY | DESCRIPTION                                                                                                         |
|-------|-----------|---------------------------------------------------------------------------------------------------------------------|
| 5     |           | (0.0-10.0) CLAY: grey.                                                                                              |
| 10    |           | (10.0-15.0) SHALE: grey, silty.                                                                                     |
| 15    |           | (15.0-20.0) SILTSTONE: grey, little harder.                                                                         |
| 20    |           | (20.0-25.0) SHALE: grey, dark grey, brown grey, carbonaceous.                                                       |
| 25    |           | (25.0-30.0) SHALE: carbonaceous, some very light brown bentonite, with seam of COAL.                                |
| 30    |           | (30.0-40.0) SHALE: brown grey, carbon, with harder grey siltstone interbed.                                         |
| 35    |           |                                                                                                                     |
| 40    |           | (40.0-60.0) SILTSTONE: grey, coarse, harder when deeper.                                                            |
| 45    |           |                                                                                                                     |
| 50    |           |                                                                                                                     |
| 55    |           |                                                                                                                     |
| 60    |           | (60.0-70.0) SHALE: grey, silty.                                                                                     |
| 65    |           |                                                                                                                     |
| 70    |           | (70.0-75.0) SHALE: grey, silty interbed, with hard grey siltstone.                                                  |
| 75    |           | (75.0-80.0) SHALE: grey, dark grey, and trace of COAL.                                                              |
| 80    |           | (80.0-85.0) SHALE: grey, silty.                                                                                     |
| 85    |           | (85.0-90.0) SHALE: carbonaceous, some creamy white bentonite, with thin seam of COAL.                               |
| 90    |           | (90.0-100.0) SHALE: grey.                                                                                           |
| 95    |           |                                                                                                                     |
| 100   |           | (100.0-105.0) SHALE: dark grey, carbonaceous.                                                                       |
| 105   |           | (105.0-110.0) SILTSTONE: hard, light grey.                                                                          |
| 110   |           | (110.0-125.0) SHALE: dark grey, carbonaceous, some black, chocolate brown, with some bentonite, and few COAL seams. |
| 115   |           |                                                                                                                     |
| 120   |           |                                                                                                                     |
| 125   |           |                                                                                                                     |
| 130   |           | (125.0-150.0) SILTSTONE: fairly hard, light grey, uniform with harder ledges.                                       |
| 135   |           |                                                                                                                     |
| 140   |           |                                                                                                                     |
| 145   |           |                                                                                                                     |
| 150   |           |                                                                                                                     |
| 155   |           |                                                                                                                     |

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP83-67 | 6063042100 | 3220                | 150             |

| DEPTH                                      | LITHOLOGY | DESCRIPTION                                                                                    |
|--------------------------------------------|-----------|------------------------------------------------------------------------------------------------|
| <b>Samples @ 5'-10' for COAL analysis.</b> |           |                                                                                                |
| <b>Samples @ 10'-15' for paleobotany.</b>  |           |                                                                                                |
| 15                                         |           | (0.0-5.0) SHALE: grey brown, weathered.                                                        |
| 20                                         |           | (5.0-10.0) SHALE: carbonaceous, weathered, with seam of COAL.                                  |
| 25                                         |           | (10.0-15.0) SHALE: black, little brown grey.                                                   |
| 30                                         |           | (15.0-50.0) SHALE: grey, uniform, with few harder thin ledges.                                 |
| 35                                         |           |                                                                                                |
| 40                                         |           |                                                                                                |
| 45                                         |           |                                                                                                |
| 50                                         |           |                                                                                                |
| 55                                         |           | (50.0-60.0) SILTSTONE: grey, hard, with still some shale.                                      |
| 60                                         |           |                                                                                                |
| 65                                         |           | (60.0-83.0) SHALE: grey, with harder grey siltstone interbed.                                  |
| 70                                         |           |                                                                                                |
| 75                                         |           |                                                                                                |
| 80                                         |           |                                                                                                |
| 85                                         |           | (83.0-90.0) SHALE: dark grey, some brown grey carbonaceous, with very small COAL trace.        |
| 90                                         |           | (90.0-95.0) SHALE: grey, silty.                                                                |
| 95                                         |           |                                                                                                |
| 100                                        |           | (95.0-100.0) SHALE: grey to dark grey, with seam of (3124' coaly zone). LITHOLOGY: 100 105 102 |
| 105                                        |           |                                                                                                |
| 110                                        |           | (105.0-110.0) SHALE: light grey, bentonitic.                                                   |
| 115                                        |           | (110.0-115.0) SHALE: dark grey, light grey, carbonaceous.                                      |
| 120                                        |           | (115.0-125.0) SHALE: grey, silty.                                                              |
| 125                                        |           |                                                                                                |
| 130                                        |           | (125.0-130.0) SILTSTONE: grey, very hard ledge at 125'.                                        |
| 135                                        |           | (130.0-135.0) SANDSTONE: fairly hard, light grey, fine.                                        |
| 140                                        |           | (135.0-140.0) SILTSTONE: fine, grey.                                                           |
| 145                                        |           | (140.0-150.0) SHALE: grey, very silty.                                                         |
| 150                                        |           |                                                                                                |
| 155                                        |           |                                                                                                |

Small shell found at 75'/80'.

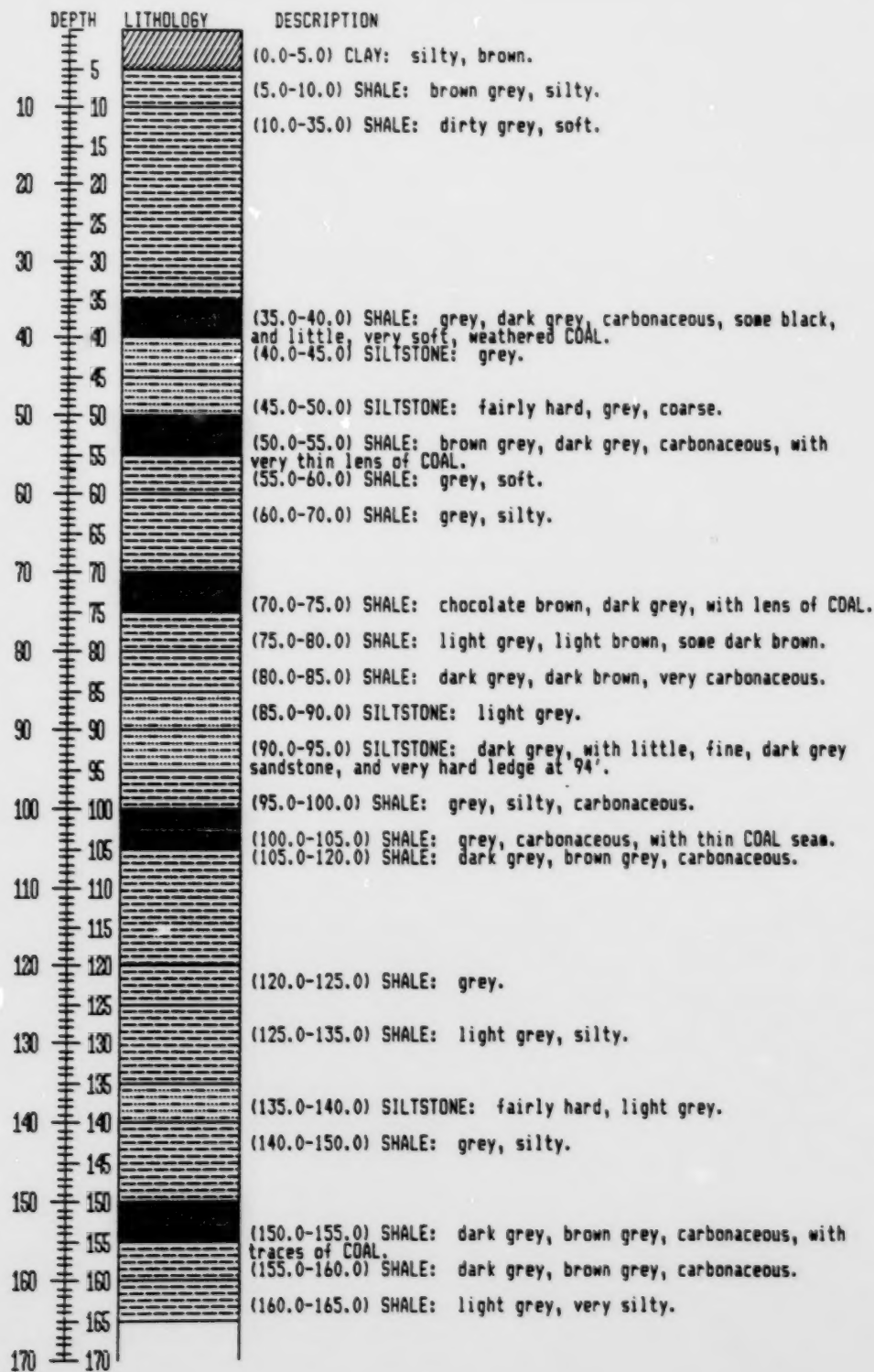
| HOLE ID        | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|----------------|------------|---------------------|-----------------|
| SP02-67<br>82A | 6063043200 | 3090                | 150             |



| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP87-67 | 6063043400 | 3105                | 150             |

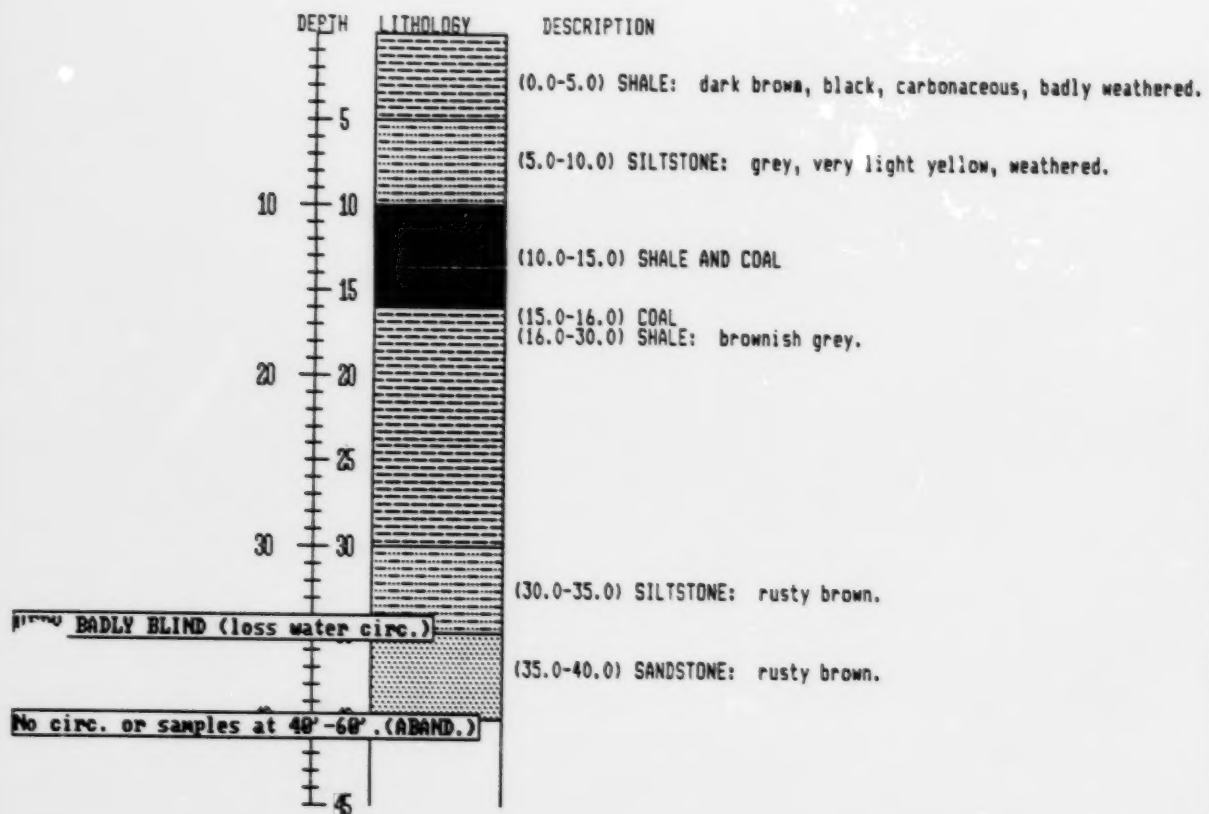
| DEPTH | LITHOLOGY | DESCRIPTION                                                                                                      |
|-------|-----------|------------------------------------------------------------------------------------------------------------------|
| 5     |           | (0.0-5.0) CLAY: silty, brown grey.                                                                               |
| 10    |           | (5.0-20.0) SHALE: weathered, brown grey.                                                                         |
| 15    |           |                                                                                                                  |
| 20    |           |                                                                                                                  |
| 25    |           | (20.0-25.0) SHALE: weathered, brown grey, with thin hard ledge.                                                  |
| 30    |           | (25.0-30.0) SHALE: brown grey, dark grey, with some creamy white bentonite, and thin COAL seam.                  |
| 35    |           | (30.0-35.0) SHALE: grey, hard ledge at 31', with brown siltstone.                                                |
| 40    |           | (35.0-40.0) SHALE: grey, bentonitic.                                                                             |
| 45    |           | (40.0-45.0) SHALE: grey to a bit dark grey.                                                                      |
| 50    |           | (45.0-50.0) SHALE: grey, brown grey, with seam of COAL.                                                          |
| 55    |           | (50.0-55.0) SHALE: brown grey, carbonaceous.                                                                     |
| 60    |           | (55.0-60.0) SHALE: uniform, light grey, very bentonitic.                                                         |
| 65    |           | (60.0-65.0) SHALE: dark grey, silty.                                                                             |
| 70    |           | (65.0-70.0) SILTSTONE: grey, fine, hard ledge at 70'.                                                            |
| 75    |           | (70.0-75.0) SHALE: dark grey, slightly carbonaceous.                                                             |
| 80    |           | (75.0-105.0) SILTSTONE: grey, uniform, hard ledge at 77' and at 89'.                                             |
| 85    |           |                                                                                                                  |
| 90    |           |                                                                                                                  |
| 95    |           |                                                                                                                  |
| 100   |           |                                                                                                                  |
| 105   |           |                                                                                                                  |
| 110   |           | (105.0-110.0) SHALE: grey, dark grey, some brown grey carbonaceous, some black.                                  |
| 115   |           | (110.0-115.0) SHALE: grey, dark grey, some brown grey carbonaceous, some black.                                  |
| 120   |           | (115.0-120.0) SHALE: grey, dark grey, some brown grey carbonaceous, some black, with COAL seam.                  |
| 125   |           | (120.0-125.0) SHALE: grey, dark grey, some brown grey carbonaceous, some black, some bentonitic, with more COAL. |
| 130   |           | (125.0-130.0) SHALE: brown grey, grey, very bentonitic.                                                          |
| 135   |           | (130.0-135.0) SHALE: grey, and harder grey siltstone.                                                            |
| 140   |           | (135.0-150.0) SHALE: grey, fairly hard.                                                                          |
| 145   |           |                                                                                                                  |
| 150   |           |                                                                                                                  |
| 155   |           |                                                                                                                  |

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP71-67 | 6063050711 | 3510 .              | 165             |

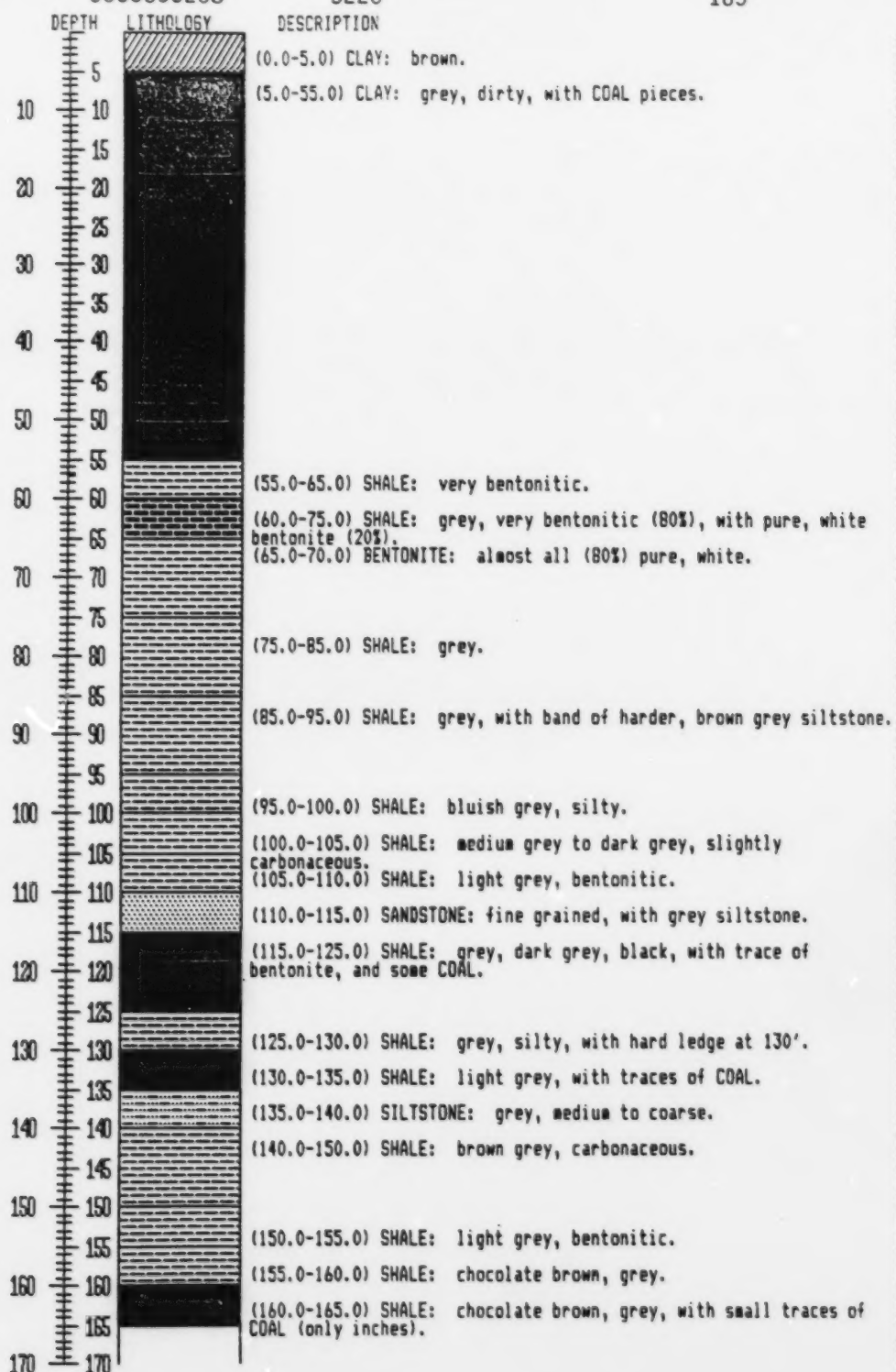




| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP70-67 | 6063051906 | 3390                | 30              |

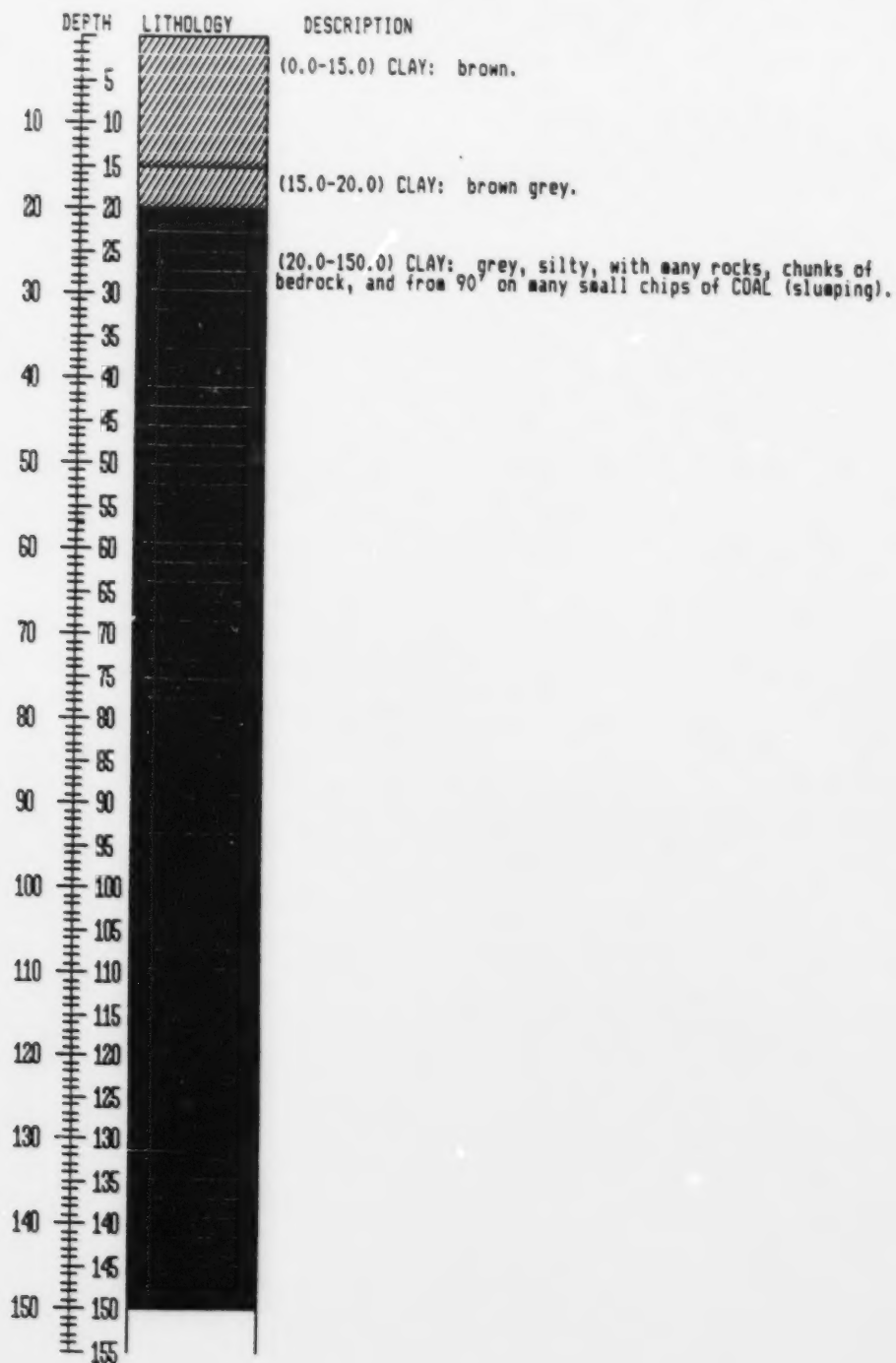


| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP72-67 | 6063053208 | 3220                | 165             |





| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP79-67 | 6063053602 | 3060                | 150             |



| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP67-67 | 6063061815 | 3500                | 165             |

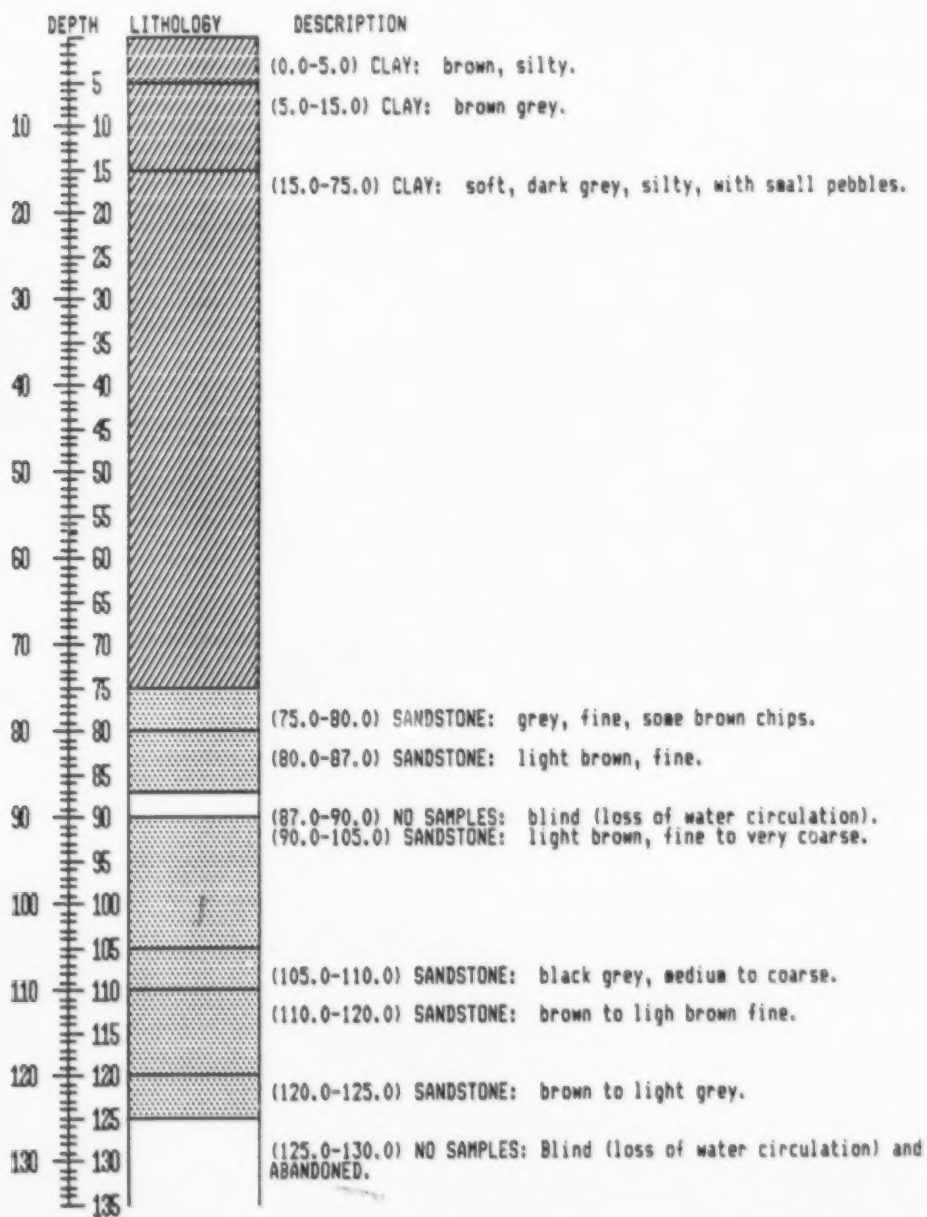
| DEPTH | LITHOLOGY | DESCRIPTION                                                                             |
|-------|-----------|-----------------------------------------------------------------------------------------|
| 5     |           | (0.0-5.0) CLAY: brown grey, with few pebbles.                                           |
| 10    |           | (5.0-15.0) SHALE: grey, soft, with few light brown chips of sandstone.                  |
| 15    |           |                                                                                         |
| 20    |           | (15.0-25.0) SHALE: grey, soft, OR chunks of COAL.                                       |
| 25    |           |                                                                                         |
| 30    |           | (25.0-43.0) SHALE: grey, soft.                                                          |
| 35    |           |                                                                                         |
| 40    |           |                                                                                         |
| 45    |           | (43.0-50.0) SILTSTONE: bit harder, grey.                                                |
| 50    |           |                                                                                         |
| 55    |           | (50.0-55.0) SHALE: grey, little brown grey carbonaceous, with seam of COAL (1.5in).     |
| 60    |           | (55.0-65.0) SHALE: grey, trace of light grey carbonaceous.                              |
| 65    |           |                                                                                         |
| 70    |           | (65.0-70.0) SHALE: greenish grey.                                                       |
| 75    |           | (70.0-75.0) SHALE: dark green, brown green, carbonaceous.                               |
| 80    |           | (75.0-80.0) SHALE: green to dark green.                                                 |
| 85    |           | (80.0-85.0) SHALE: light green, bentonitic.                                             |
| 90    |           | (85.0-90.0) SHALE: light green, bentonitic, with very small trace of COAL.              |
| 95    |           | (90.0-95.0) SHALE: light green, very bentonitic.                                        |
| 100   |           | (95.0-96.0) SHALE: harder ledge.                                                        |
| 105   |           | (96.0-105.0) NO SAMPLES                                                                 |
| 110   |           | (105.0-110.0) SHALE: grey, bentonitic.                                                  |
| 115   |           | (110.0-120.0) SHALE: bright, slightly greenish grey, silty.                             |
| 120   |           |                                                                                         |
| 125   |           | (120.0-130.0) SHALE: brown green, carbonaceous (70%), white grey, bentonitic (30%).     |
| 130   |           |                                                                                         |
| 135   |           | (130.0-140.0) SILTSTONE: light grey, fine.                                              |
| 140   |           |                                                                                         |
| 145   |           | (140.0-150.0) SHALE: harder, dark green, brown grey, carbonaceous.                      |
| 150   |           |                                                                                         |
| 155   |           | (150.0-155.0) SILTSTONE: grey.                                                          |
| 160   |           | (155.0-165.0) SHALE: grey, silty (60%), with dark grey, brown grey, carbonaceous (40%). |
| 165   |           |                                                                                         |
| 170   |           |                                                                                         |

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP68-67 | 6063062107 | 3420                | 130             |

| DEPTH | LITHOLOGY | DESCRIPTION                                                                                  |
|-------|-----------|----------------------------------------------------------------------------------------------|
| 5     |           | (0.0-3.0) CLAY: brown.                                                                       |
| 10    |           | (3.0-15.0) SANDSTONE: rusty brown.                                                           |
| 15    |           |                                                                                              |
| 20    |           | (15.0-20.0) SILTSTONE: rusty brown.                                                          |
| 25    |           | (20.0-25.0) SILTSTONE: light grey, brown.                                                    |
| 30    |           | (25.0-30.0) SILTSTONE: light grey, brown, with few inches of COAL.                           |
| 35    |           | (30.0-50.0) SILTSTONE: brown, rusy brown, brown green, weathered, with some weathered shale. |
| 40    |           |                                                                                              |
| 45    |           |                                                                                              |
| 50    |           | (50.0-55.0) SHALE: grey.                                                                     |
| 55    |           | (55.0-60.0) SHALE: green grey, silty.                                                        |
| 60    |           | (60.0-75.0) SILTSTONE: grey to light grey, soft.                                             |
| 65    |           |                                                                                              |
| 70    |           |                                                                                              |
| 75    |           |                                                                                              |
| 80    |           | (75.0-80.0) SHALE: medium to dark grey, slightly carbonaceous.                               |
| 85    |           | (80.0-85.0) SHALE: black grey, silty.                                                        |
| 90    |           | (85.0-90.0) SHALE: black grey, silty, band of dark grey carbonaceous.                        |
| 95    |           | (90.0-95.0) SHALE: black grey, very silty.                                                   |
| 100   |           | (95.0-100.0) SHALE: dark grey.                                                               |
| 105   |           | (100.0-105.0) SILTSTONE: light grey.                                                         |
| 110   |           | (105.0-115.0) SHALE: grey, silty.                                                            |
| 115   |           |                                                                                              |
| 120   |           | (115.0-120.0) SHALE: dark grey, slightly carbonaceous.                                       |
| 125   |           |                                                                                              |

U. hard ledge 121'-130' (BLIND, ABANDONED)

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP69-67 | 6063062412 | 3110                | 130             |



| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP66-67 | 6063072500 | 3450                | 165             |

| DEPTH | LITHOLOGY                      | DESCRIPTION                                                                                             |
|-------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| 5     |                                | (0.0-5.0) SHALE: brown, weathered, with thin lens of weathered COAL?                                    |
| 10    |                                | (5.0-10.0) SILTSTONE: brown grey, weathered, and sandstone.                                             |
| 15    |                                | (10.0-30.0) SHALE: soft, grey, uniform.                                                                 |
| 20    |                                |                                                                                                         |
| 25    |                                |                                                                                                         |
| 30    |                                |                                                                                                         |
| 35    |                                | (30.0-35.0) SILTSTONE: grey, with hard, grey, light grey chips.                                         |
| 40    |                                | (35.0-40.0) SILTSTONE: grey with harder ledges.                                                         |
| 45    |                                | (40.0-45.0) SHALE: bright black grey, few pieces of very light grey bentonitic.                         |
| 50    |                                | (45.0-50.0) SHALE: very light grey to creamy white, bentonitic.                                         |
| 55    |                                | (50.0-55.0) SHALE: light grey, with some light grey siltstone.                                          |
| 60    |                                | (55.0-60.0) SILTSTONE: light grey, very coarse.                                                         |
| 65    |                                | (60.0-65.0) SILTSTONE: greenish grey, hard, with traces of dark grey and brown grey carbonaceous shale. |
| 70    |                                | (65.0-72.0) SILTSTONE: harder, coarser, grey.                                                           |
| 75    |                                |                                                                                                         |
| 80    |                                | (72.0-80.0) SILTSTONE: grey, not as hard.                                                               |
| 85    |                                |                                                                                                         |
| 90    |                                | (85.0-90.0) SILTSTONE: slightly dark.                                                                   |
| 95    |                                | (90.0-100.0) SHALE: grey, with chips of grey siltstone.                                                 |
| 100   |                                |                                                                                                         |
| 100   | BADLY BLIND (loss water circ.) | (100.0-107.0) SHALE: grey, with more grey siltstone.                                                    |
| 110   |                                | (107.0-115.0) SANDSTONE: grey, hard ledge.                                                              |
| 115   |                                |                                                                                                         |
| 120   |                                | (115.0-130.0) SHALE: grey, fairly soft.                                                                 |
| 125   |                                |                                                                                                         |
| 130   | BLIND (loss water circ.)       | (130.0-140.0) SILTSTONE: hard, grey.                                                                    |
| 135   |                                |                                                                                                         |
| 140   |                                | (140.0-155.0) SHALE: medium grey, silty, some very light grey bentonitic.                               |
| 145   |                                |                                                                                                         |
| 150   |                                |                                                                                                         |
| 155   |                                |                                                                                                         |
| 160   |                                | (155.0-160.0) SHALE: grey, silty, uniform.                                                              |
| 165   |                                | (160.0-165.0) SHALE: grey, silty, little dark grey and brown grey carbonaceous.                         |
| 170   |                                |                                                                                                         |

| HOLE ID | LOCATION   | ELEVATION (in feet) | DEPTH (in feet) |
|---------|------------|---------------------|-----------------|
| SP65-67 | 6063072600 | 3180                | 90              |

| DEPTH | LITHOLOGY | DESCRIPTION                                                                        |
|-------|-----------|------------------------------------------------------------------------------------|
| 5     |           | (0.0-10.0) SHALE: light buff, weathered.                                           |
| 10    |           | (10.0-20.0) SHALE: brown grey, dark brown grey, carbonaceous, soft, weathered.     |
| 15    |           |                                                                                    |
| 20    |           | (20.0-21.0) SANDSTONE: hard ledge, fine, weathered.                                |
| 25    |           | (21.0-30.0) SILTSTONE: light brown, weathered.                                     |
| 30    |           |                                                                                    |
| 35    |           | (30.0-40.0) SANDSTONE: fairly hard, weathered, brown grey.                         |
| 40    |           |                                                                                    |
| 45    |           | (40.0-45.0) SILTSTONE: coarse, soft, grey.                                         |
| 50    |           | (45.0-55.0) SHALE: grey, light brown, dark grey, brown grey slightly carbonaceous. |
| 55    |           |                                                                                    |
| 60    |           | (55.0-65.0) SILTSTONE: greenish light grey, and silty shale.                       |
| 65    |           |                                                                                    |
| 70    |           | (65.0-70.0) SHALE: light black grey, light green grey, silty, soft.                |
| 75    |           | (70.0-80.0) SHALE: grey to dark grey, carbonaceous.                                |
| 80    |           |                                                                                    |
| 85    |           | (80.0-86.0) SHALE: grey, some dark grey carbonaceous.                              |
| 90    |           | (86.0-90.0) VERY HARD: BLIND (loss of water circulation) and ABANDONED.            |
| 95    |           |                                                                                    |

**MAPS  
NOT  
FILMED**

**CARTES  
OMISES**